

LIVESTOCK GENTEC PUBLICATIONS since 2010

2016

1. Akanno, E.C, Chen, L., Abo-Ismael, M., Crowley, J., Wang, Z., Li, C., Basarab, J., MacNeil, M., Plastow, G. (2016) Genomic prediction of breed composition and heterosis effects in Angus, Charolais and Hereford crosses using 50K genotypes. *Canadian Journal of Animal Science*, (in press). IF 0.724. Citations 0.
2. Bertolini, F., Harding, J.C.S., Mote, B., Ladinig, A., Plastow, G.S., Rothschild, M.F. (2016) Genomic investigation of piglet resilience following porcine epidemic diarrhea outbreaks. *Animal Genetics* (in press). IF 1.779. Citations 0
3. Blanes, M.S., Tsoi, S.C.M., Dyck, M.K. (2016) Accurate and Phenol Free DNA Sexing of Day 30 Porcine Embryos by PCR. *Journal of Visualized Experiments* 108: e53301. IF 1.113 Citations 0.
4. Bourrie, B., Willing, B.P., Cotter, P. (2016) The microbiota and health promoting characteristics of the fermented beverage kefir. *Frontiers in Microbiology* 7: 647. IF n/a Citations 5.
5. Chauhan, A., Pathak, A., Ewida, A.Y.I., Griffiths, Z., Stothard, P. (2016) Whole genome sequence analysis of an Alachlor and Endosulfan degrading *Pseudomonas* strain W15Feb9B isolated from Ochlockonee River, Florida. *Genomics Data* 8: 134-138. IF n/a Citations 0.
6. Fleming, A.L., Hays, D.P., Moore, S., Plastow, G., Miller, S.P. (2016) History of the Hays Converter. *Canadian Journal of Animal Science* 96: 471–477. IF 0.724 Citations 0.
7. Flesch, T.K., Baron, V.S., Wilson, J.D., Griffith, D.W.T., Basarab, J.A., Peter J. Carlson, P.J. (2016) Agricultural gas emissions during the spring thaw: Applying a new measurement technique. *Agricultural and Forest Meteorology* 221: 111–121. IF 4.461 Citations 0.
8. Fouhse, J.M., Zijlstra, R.T., Willing, B.P. (2016) The role of gut microbiota in the health and disease of pigs. *Animal Frontiers* 6: 30-36. IF ? Citations 1.
9. Haisan, J., Sun, Y., Guan, L.L., Beauchemin, K.A., Iwaasa, A., Duval, Kindermann, M., Barreda, D.R., Oba, M. (2016) The effects of feeding 3-nitrooxypropanol at two doses on milk production, rumen fermentation, plasma metabolites, nutrient digestibility, and methane

emissions in lactating Holstein cows. *Animal Production Science* 57: 282-289. *IF 0.902 Citations 2.*

10. Hess, A.S., Islam, Z., Hess, M.K., Rowland, R.R.R., Lunney, J.K., Doeschl-Wilson, A., Plastow, G., Dekkers, J. (2016) Comparison of host genetic factors influencing pig response to infection with two North American isolates of porcine reproductive and respiratory syndrome virus. *Genetics Selection Evolution* 48: 43. *IF 2.895 Citations 0.*

11. Ju, T.T., Li, J., Willing, B.P. (2016) Microbiota-related modulation of metabolic processes in the body, *The Human Microbiome Handbook*. Tetro and Allen-Vercoe, DEStech Publications. pp. 171-212. *IF n/a Citations 0.*

12. Kong, R.S.G., Liang, G., Chen Y., Stothard, P. Transcriptome profiling of the rumen epithelium of beef cattle differing in residual feed intake. *BMC genomics* 17: 592. *IF 3.867 Citations 0.*

13. Lavallee, C.M., MacPherson, J.A., Zhou, M., Gao, Y., Wizzard, P.R., Wales, P.W., Turner, J.M., Willing, B.P. (2016) Lipid emulsion formulation of parenteral nutrition affects intestinal microbiota and host responses in neonatal piglets. *Journal of Parenteral and Enteral Nutrition*. doi: 10.1177/0148607116662972. *IF n/a Citations 0.*

14. Li, F., Henderson, G., Sun, X., Cox, F., Janssen, P.H., Guan, L.L. (2016) Taxonomic assessment of rumen microbiota using total RNA and targeted amplicon sequencing approaches. *Frontiers in Microbiology* 7:987. *IF n/a Citations 0.*

15. Liang, G., Malmuthuge, N., Bao, H, Stothard, P., Griebel, P.J., Guan, L.L. (2016) Transcriptome analysis reveals regional and temporal differences in mucosal immune system development in the small intestine of neonatal calves. *BMC Genomics* 17: 602. *IF 3.867 Citations 0.*

16. Lu, D., Akanno, E.C., Crowley, J.J., Schenkel, F., Li, H., De Pauw, M., Moore, S.S., Wang, Z., Li, C., Stothard, P., Plastow, G., Miller, S.P., Basarab, J.A. (2016) Accuracy of genomic predictions for feed efficiency traits of beef cattle using 50K and imputed HD genotypes. *Journal Animal Science* 94: 1342-1353. *IF 2.014 Citations 0.*

17. Lu, Y., Vandehaar, M.J., Spurlock, D.M., Weigel, K.A., Armentano, L.E., Staples, C.R., Connor, E.E., Wang, Z., Coffey, M., Veerkamp, R. De haas Y., Tempelman, R.J. (2016) Modeling genetic and non-genetic variation of feed efficiency and its partial relationships

- between component traits as a function of management and environmental factors. *Journal Dairy Science* 100:1-16. *IF 2.408 Citations 0.*
18. Mahmood, S., Basarab, J., Dixon, W., Bruce, H. L. (2016) Relationship between phenotype, carcass characteristics and the incidence of dark cutting in heifers. *Meat Science* 121: 261-271. *IF 2.801 Citations 0.*
 19. Mahmood, S., Basarab, J., Dixon, W., Bruce, H. L. (2016) Can potential for dark cutting be predicted by phenotype? Relationships between sex, carcass characteristics and the incidence of dark cutting beef. *Canadian Journal of Animal Science* 96: 19-31. *IF 0.724 Citations 1.*
 20. Malmuthuge, N., Guan, L.L. Gut microbiome and omics: A new definition to ruminant production and health. *Animal Frontiers* 6: 8-12. *IF ? Citations 1.*
 21. Manafiazar, G., Goonewardene, L., Miglior, F., Crews, D.H., Basarab, J.A., Okine E., Wang, Z. (2016) Genetic and phenotypic correlations among feed efficiency, production and selected conformation traits in dairy cows. *Animal* 10: 381-389. *IF 1.508 Citations 0.*
 22. Manafiazar, G., Zimmerman, S, Basarab, J.A. (2016) Repeatability and variability of short-term spot measurement of methane and carbon dioxide emissions from beef cattle using GreenFeed Emissions Monitoring System. *Canadian Journal of Animal Science* 96: 143-153. *IF 0.724 Citations 0.*
 23. Mu, C., Yang, Y., Luo, Z., Guan, L.L., Zhu, W. (2016) The Colonic Microbiome and Epithelial Transcriptome Are Altered in Rats Fed a High-Protein Diet Compared with a Normal-Protein Diet. *Journal of Nutrition* 146: 474-83. *IF 3.74 Citations 5.*
 24. Nayeri, S., Sargolzaei, M., Abo-Ismael, M.K., Miller, S., Schenkel, F., Moore, S.S., Stothard, P. (2016) Genome-wide association study for lactation persistency, female fertility, longevity, and lifetime profit index traits in Holstein dairy cattle. *Journal of Dairy Science* 100: 1–13. *IF 2.408 Citations 1.*
 25. Nayeri, S., Stothard, P. (2016) Tissues, Metabolic Pathways and Genes of Key Importance in Lactating Dairy Cattle. *Springer Science Reviews* 1-29. *IF n/a Citations 0.*
 26. Pathak, A., Chauhan, A., Blom, J., Indest, K.J., Jung, C.M., Stothard, P., Bera, G., Green, S.J., Ogram, A. (2016) Comparative Genomics and Metabolic Analysis Reveals Peculiar

Characteristics of *Rhodococcus opacus* Strain M213 Particularly for Naphthalene Degradation. *PLoS One* 11(8): e0161032. *IF 3.54 Citations 0.*

27. Pathak, A., Chauhan, A., Ewida, A.Y.I., Stothard, P. (2016) Whole Genome Sequence Analysis of an Alachlor and Endosulfan Degrading *Micrococcus* sp. strain 2385 Isolated from Ochlockonee River, Florida. *Journal of Genomics* 4: 42. *Citations 0.*
28. Plastow, G.S. (2016) Genomics to benefit livestock production: improving animal health. *Revista Brasileira de Zootecnia (Brazilian Journal of Animal Science)* 45: 349-354. *IF 0.412 Citations 0.*
29. Puente, J., Samanta, S.S., Bruce, H.L. (2016) Objective meat quality characteristics associated with aged m. *longissimus thoracis* from the four Canadian beef quality grades. *Canadian Journal of Animal Science* 96: 143-153. *IF 0.724 Citations 0.*
30. Raszek, M.M., Guan, L.L., Plastow, G.S. (2016) Use of genomic tools to improve cattle health in the context of infectious diseases. *Frontiers in Genetics* 7: 30. *IF n/a Citations 1.*
31. Rothschild, M.F., Plastow, G. (2016) Applications of Technology for Small Holders' Livestock to Meet Global Food Production. *Ceiba* 54: 3-13. *IF n/a Citations 0.*
32. Salehi, R., Colazo, M.G., Tsoi, S., Behrouzi, A., Tsang, B.K., Oba, M., Dyck, M.K., Ambrose, D.J. (2016) Morphologic and transcriptomic assessment of bovine embryos exposed to dietary long-chain fatty acids. *Reproduction*.152: 715-726. *IF 3.184 Citations 0.*
33. Schroyen, M., Eislely, C., Koltjes, J.E., Fritz-Waters, E., Choi, I., Plastow, G., Guan, L., Stothard, P., Bao, H., Kommadath, A., Reecy, J.M., Lunney, J.K., Rowland, R.R.R., Dekkers, J.C.M., Tuggle, C.K. (2016) Bioinformatic analyses in early host response to Porcine Reproductive and Respiratory Syndrome virus PRRSV reveals pathway differences between pigs with alternate genotypes for a major host response QTL. *BMC Genomics* 17: 196. *IF 3.867 Citations 2.*
34. Serão, N.V.L., Kemp, R.A., Mote, B.E., Harding, J.C.S., Willson, P., Bishop, S.C. Plastow, G.S., Dekkers, J.C.M. (2016) Genetic and Genomic basis of antibody response to porcine reproductive and respiratory syndrome (PRRS) in gilts and sows. *Genetics Selection Evolution* 48:51. *IF 2.895 Citations 1.*

35. Singh, V.P., Proctor, S., Willing, B.P. (2016) Koch's postulates, microbial dysbiosis and inflammatory bowel disease. *Clinical Microbiology and Infection* 22: 594-9. *IF 4.575 Citations 1.*
36. Steele, M.A., Penner, G.B., Chaucheyras-Durand, F., Guan, L.L. Development and physiology of the rumen and the lower gut: targets for improving gut health. *Journal of Dairy Science* 99: 4955-4966. *IF 2.408 Citations 4.*
37. Srithayakumar, V., Mitchell, G.B., White, B.N. (2016) Identification of amino acid variation in the prion protein associated with classical scrapie in Canadian dairy goats. *BMC Veterinary Research* 12: 59. *IF 1.377 Citations 0.*
38. Thekkoot, D.M., Kemp, R.A., Rothschild, M.F., Plastow, G.S., Dekkers, J.C.M. (2016) Estimation of genetic parameters for traits associated with reproduction, lactation, and efficiency in sows. *Journal Animal Science* 94: 4516-4529. *IF 2.014 Citations 0.*
39. Turret, J., Willing, B.P., Croxen, M.A., Dufour, N., Dion, S., Wachtel, S., Denamur, E., Finlay, B.B. (2016) Small Intestine Early Innate Immunity Response during Intestinal Colonization by *Escherichia coli* Depends on Its Extra-Intestinal Virulence Status. *PLoS ONE* 11(4): e0153034. *IF 3.54 Citations 1.*
40. Tuggle, C.K., Giuffra, E., White, S.N., Clarke, L., Zhou, H., Ross, P.J., Acloque, H., Reecy, J.M., Archibald, A., Bellone, R.R., Boichard, M., Chamberlain, A., Cheng, H., Crooijmans, R.P.M.A., Delany, M.E., Finno, C.J., Groenen, M.A.M., Hayes, B., Lunney, J.K., Petersen, J.L., Plastow, G.S., Schmidt, C.J., Song, J., Watson, M. (2016) GO-FAANG meeting: a gathering on functional annotation of animal genomes. *Animal Genetics* 47: 528-533. *IF 1.779 Citations 0.*
41. Wang, D., Liang, G, Wang, B., Sun, H., Liu, J., Guan, L.L. (2016) Systematic microRNAome profiling reveals the roles of microRNAs in milk protein metabolism and quality: insights on low-quality forage utilization. *Scientific Reports* 6: 21194. *IF 5.228 Citations 0.*
42. Wang, O., Liang, G., McAllister, T.A., Plastow, G., Stanford, K., Selinger, B., Guan, L.L. (2016) Comparative transcriptomic analysis of rectal tissue from beef steers revealed reduced host immunity in *Escherichia coli* O157:H7 super-shedders. *PLoS ONE* 11: e0151284. *IF 3.54 Citations 0.*

43. Wang, Y., Lin, G., Li, C., Stothard, S. (2016). Genotype imputation methods and their effects on genomic predictions in cattle. *Springer Science Reviews (in press)*. *IF n/a Citations 0*.
44. Wilkinson, J., Bao, H., Ladinig, A., Hong, L., Stothard, P., Lunney, J., Plastow, G., Harding, J. (2016) Genome-wide analysis of the transcriptional response to porcine reproductive and respiratory syndrome virus infection at the maternal/fetal interface and in the fetus. *BMC Genomics* 17: 383. *IF 3.867 Citations 1*.
45. Wilkinson, J.M., Ladinig, A., Bao, H., Kommadath, A., Stothard, P., Lunney, J.K., Harding, J.C.S., Plastow, G.S. (2016) Differences in whole blood gene expression associated with infection time-course and extent of fetal mortality in a reproductive model of type 2 Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) infection. *PLoS ONE* 11(4): e0153615. *IF 3.54 Citations 0*.
46. Wu, D., Xu, L., Tang, S., Guan, L., He, Z., Guan, Y., Tan, Z., Han, X., Zhou, C., Kang, J., Wang, M. (2016) Influence of oleic acid on rumen fermentation and fatty acid formation in vitro. *PLoS ONE* 11: e0156835. *IF 3.54 Citations 0*.
47. Yang, T., Wilkinson, J., Wang, Z., Ladinig, A., Harding, J., Plastow, G. (2016) A genome-wide association study of fetal response to type 2 porcine reproductive and respiratory syndrome virus challenge. *Scientific Reports* 6: 20305. *IF 5.228 Citations 2*.
48. Yao, C., de los Campos, G. VandeHaar, M., Spurlock, D., Armentano, L., Coffey, M., de Haas, Y., Veerkamp, R., Staples, C.R., Connor, E.E., Wang, Z., Hanigan, M.D., Tempelman, R.J., Weigel, K. (2016) Use of genotype x environment interaction model to accommodate genetic heterogeneity for residual feed intake, dry matter intake, net energy in milk, and metabolic body weight in dairy cattle. *Journal Dairy Science*, (accepted on Nov 22, 2016). *IF 2.408 Citations 0*.
49. Zhang, C., Bruce, H., Yang, T., Charagu, P., Kemp, R.A., Boddicker, N., Miar, Y., Wang, Z., Plastow, G. (2016) Genome wide association studies (GWAS) identify QTL on SSC2 and SSC17 affecting loin peak shear force in crossbred commercial pigs. *PLoS ONE* 11: e0145082. *IF 3.54 Citations 0*.
50. Zhao, P., J. Li, H. Kang, H. Wang, Z. Fan, Z. Yin, J. Wang, Q. Zhang, Z. Wang, J.F. Liu. (2016) Structural Variant Detection by Large-scale Sequencing Reveals New Evolutionary Evidence on Breed Divergence between Chinese and European Pigs. *Scientific Reports* 6: 18501. *IF 5.228 Citations 1*.

51. Zhao, K., Liang, G., Sun, X., Guan, L.L. (2016) Comparative miRNAome analysis revealed different miRNA expression profiles in bovine sera and exosomes. *BMC Genomics* 201617:630. *IF 3.867 Citations 0.*

2015

1. Akanno, E.C., Plastow, G., Fitzsimmons, C., Miller, S.P., Baron, V., Ominski, K., Basarab, J.A. (2015) Genome-wide association for heifer reproduction and postpartum performance traits in beef cattle. *Genome* 58: 549-557. *IF 1.356 Citations 1.*
2. Andersson, L., Archibald, A.L., Bottema, C.D., Brauning, R., Burgess, S.C., Burt, D.W., Casas, E., Cheng, H.H., Clarke, L., Couldrey, C., Dalrymple, B.P., Elsik, C.G., Foissac, S., Giuffra, E., Groenen, M.A., Hayes, B.J., Huang, L.S., Khatib, H., Kijas, J.W., Kim, H., Lunney, J.K., McCarthy, F.M., McEwan, J.C., Moore, S., Nanduri, B., Notredame, C., Palti, Y., Plastow, G.S., Reecy, J.M., Rohrer, G.A., Sarropoulou, E., Schmidt, C.J., Silverstein, J., Tellam, R.L., Tixier-Boichard, M., Tosser-Klopp, G., Tuggle, C.K., Vilkki, J., White, S.N., Zhao, S., Zhou, H., and The FAANG Consortium (2015) Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. *Genome Biology* 16: 57. *IF 11.313 Citations 37.*
3. Bamdad, F., Sun, X., Guan L.L., Chen, L. (2015) Preparation and characterization of antimicrobial cationized peptides from barley (*Hordeum vulgare* L.) proteins. *Lebensmittel-Wissenschaft und-Technologie* 63: 29-36. *IF 2.711 Citations 2.*
4. Bao, H., Kommadath, A., Liang, G., Sun, X., Arantes, A.S., Tuggle, C.K., Bearson, S.M.D., Plastow, G.S., Stothard, P., Guan, L.L. (2015) Genome-wide whole blood microRNAome and transcriptome analyses revealed miRNA-mRNA regulated host response to foodborne pathogen Salmonella infection in swine. *Scientific Reports* 5: 12620. *IF 5.228 Citations 4.*
5. Chen, L., Ekine-Dzivenu, C., Vinsky, M., Basarab, J., Aalhus, J., Dugan, M.E.R., Fitzsimmons, C., Stothard, P., Changxi, L. (2015) Genome-wide association and genomic prediction of breeding values for fatty acid composition in subcutaneous adipose and *longissimus lumborum* muscle of beef cattle. *BMC Genetics* 16:135.
6. Chen, C., Li, C., Schenkel, F. (2015) An alternative computing strategy for genomic prediction using a Bayesian mixture model. *Canadian Journal of Animal Science* 95: 1-11. *IF 0.724 Citations 2.*
7. Chen, L., Vinsky, M., Li, C. (2015) Accuracy of predicting genomic breeding values for carcass merit traits in Angus and Charolais beef cattle. *Animal Genetics* 46: 55-59. *IF 1.779 Citations 4.*
8. Dorshorst, B., Henegar, C., Liao, X., Sallman Almen, M., Rubin, C.J., Ito, S., Wakamatsu, K., Stothard, P., Van Doormaal, B., Plastow, G., Barsh, G.S., Andersson, L. (2015)

Dominant red coat color in Holstein cattle is associated with a missense mutation in the coatomer protein complex, subunit alpha (COPA) gene. *PLoS One* 10: e0128969. *IF 3.54 Citations 4.*

9. Guan, Y., Liang, G., Hawken, P.A.R., Malecki, I.A., Cozens, G., Vercoe, P.E., Martin, G.B., Guan, L.L. (2015) Roles of small RNAs in the effects of nutrition on apoptosis and spermatogenesis in the adult testis. *Scientific Reports* 5: 10372. *IF 5.228 Citations 3.*

10. Guan, Y., Liang, G., Hawken, P.A.R., Meachem, S., Malecki, I.A., Ham, S., Stewart, T., Guan, L.L., Martin, G.B. (2014) Nutrition affects Sertoli cell function, but not Sertoli cell numbers in sexually mature male sheep. *Reproduction, Fertility and Development* 28: 1152-1163. *IF 2.135 Citations 1.*

11. Henderson G, Cox F, Ganesh S, Jonker, A., Young, W., Global Rumen Census Collaborators, Janssen, P.H. (2015) Rumen microbial community composition varies with diet and host, but a core microbiome is found across a wide geographical range. *Scientific Reports* 5: 14567. *IF 5.228 Citations 40.*

12. Jiang J.C., Zhang, Q., Ma, L., Li, J.Y., Wang Z., Liu, J.F. (2015) Joint prediction of multiple quantitative traits using a Bayesian multivariate antedependence model. *Heredity* 115: 29-36. *IF 3.801 Citations 2.*

13. Jiao, J.Z., W.Z., Guan, L.L., Tan, Z.L., Han, X.F., Tang, S.X., Zhou, C.S. (2015) Postnatal bacterial succession and functional establishment of hindgut in supplemental feeding and grazing goats. *Journal of Animal Science* 93: 3528-38. *IF 2.014 Citations 1.*

14. Kim, E.T., Guan, L.L., Lee, S.J., Lee, S.M., Lee, S.S., Lee, I.D., Lee, S.K., Lee, S.S. (2015) Effects of flavonoid-rich plant extracts on in vitro ruminal methanogenesis, microbial populations and fermentation characteristics. *Asian-Australas Journal Animal Science* 28: 530-7. *IF 0.756 Citations 7.*

15. Koltes, J.E., Fritz-Waters, E., Eislely, C.J., Choi, I., Bao, H., Kommadath, A., Serao, N.V., Boddicker, N.J., Abrams, S.M., Schroyen, M., Loyd, H., Tuggle, C.K., Plastow, G.S., Guan, L., Stothard, P., Lunney, J.K., Liu, P., Carpenter, S., Rowland, R.R., Dekkers, J.C., Reecy, J.M. (2015) Identification of a putative quantitative trait nucleotide in guanylate binding protein 5 for host response to PRRS virus infection. *BMC Genomics* 16: 412. *IF 3.867 Citations 13.*

16. Ladinig, A., Ashley, C., Detmer, S.E., Wilkinson, J.M., Lunney, J.K., Plastow, G., Harding, J.C.S. (2015) Maternal and fetal predictors of fetal viral load and death in third trimester, type 2 porcine reproductive and respiratory syndrome virus infected pregnant gilts. *Veterinary Research* 46: 107. *IF 2.928 Citations 7.*
17. Lee, S.J., Kim, D.H., Guan, L.L., Ahn, S.K., Cho, K.W., Lee, S.S. (2015) Effect of Medicinal Plant By-products Supplementation to Total Mixed Ration on Growth Performance, Carcass Characteristics and Economic Efficacy in the Late Fattening Period of Hanwoo Steers. *Asian-Australasian Journal of Animal Sciences* 28:1729-1735. *IF 0.756 Citations 1.*
18. Lee, S.M., Guan, L.L., Eun, J.S., Kim, C.H., Lee, S.J., Kim, E.T., Lee, S.S. (2015) The effect of anaerobic fungal inoculation on the fermentation characteristics of rice straw silages. *Journal of Applied Microbiology* 118: 565-73. *IF 2.156 Citations 2.*
19. Lewis, E.D., Zhao, Y.-Y., Richard, C., Bruce, H.L., Jacobs, R.L., Field, C.J., Curtis, J.M. (2015) Measurement of the abundance of choline and the distribution of choline-containing moieties in meat. *International Journal of Food Science and Nutrition* 66: 743-748. *IF 1.451 Citations 1.*
20. Liang, G., Malmuthuge, N., Guan, L.L., Griebel, P.J. (2015) Model systems to analyze the role of miRNAs and commensal microflora in bovine mucosal immune system development. *Molecular Immunology* 66: 57-67. *IF 3.375 Citations 2.*
21. López-Campos, Ó., Aalhus, J.L., Prieto, N., Larsen, I. L., Juárez, M., Basarab, J.A. (2015) Chronological vs. physiological age indicators in beef cattle: Effects of the production system and growth promotants. *Meat Science* 99: 146. *IF 2.801 Citations 1.*
22. Lu, Y., Vandehaar, M.J., Spurlock, D.M., Weigel, K.A., Armentano, L.E., Staples, C. R., Connor, E.E., Wang, Z., Bello, N.M., Tempelman, R.J. (2015) An alternative approach to modelling genetic merit of feed efficiency in dairy cattle. *Journal of Dairy Science* 98: 6535-6551. *IF 2.408 Citations 5.*
23. McAllister, T.A., Meale, S.J., Valle, E., Guan, L.L., Zhou, M., Kelly, W.J., Henderson, G., Attwood, G.T., Janssen, P.H. (2015) Ruminant Nutrition Symposium: Use of genomics and transcriptomics to identify strategies to lower ruminal methanogenesis. *Journal of Animal Science* 93: 1431-49. *IF 2.014 Citations 8.*
24. Mahmood, S., Basarab, J., Dixon, W., Bruce, H. L. (2015) Can potential for dark cutting be predicted by phenotype? I. Relationships between sex, carcass characteristics and the

- incidence of dark cutting beef. *Canadian Journal of Animal Science* 99: 151. *IF 0.724 Citations 1.*
25. Majumder, K., Liang, G., Chen, Y., Guan, L.L., Davidge, S.T., Wu, J. (2015) Egg ovotransferrin derived ACE inhibitory peptide IRW increases ACE2 but decreases pro-inflammatory genes expression in mesenteric artery of spontaneously hypertensive rats. *Molecular Nutrition & Food Research* 59: 1735-1744. *IF 4.551 Citations 5.*
 26. Malmuthuge, N., Chen, Y., Liang, G., Goonewardene, L.A., Guan, L.L. (2015) Heat-treated colostrum feeding promotes beneficial bacteria colonization in the small intestine of neonatal calves. *Journal of Dairy Science* 98: 8044-53. *IF 2.408 Citations 7.*
 27. Malmuthuge, N., Grebiel, J.G., Guan, L.L. (2015) The gut microbiome and its potential role in the development and function of newborn calf gastrointestinal tract. *Frontiers Veterinary Science* 2: 36. *IF ? Citations 5.*
 28. Manafiazar, G., Basarab, J.A., Baron, V.S., McKeown, L., Doce, R.R., Swift, M., Undi, M., Wittenberg, K., Ominski, K. (2015) Effect of post-weaning residual feed intake classification on grazed grass intake and performance in pregnant beef heifers. *Canadian Journal of Animal Science* 95: 369-381. *IF 0.724 Citations 3.*
 29. Meale, S.J., Chaves, A.V., He, M.L., Guan, L.L., McAllister, T.A. (2015) Effects of various dietary lipid additives on lamb performance, carcass characteristics, adipose tissue fatty acid composition, and wool characteristics. *Journal Animal Science* 93: 3110-20. *IF 2.014 Citations 3.*
 30. Miar, Y., Plastow, G., Wang, Z. (2015) Genomic selection, a new era for pork quality improvement. *Springer Science Reviews* 3: 27-37. *IF n/a Citations 0.*
 31. Miller, J.M., Moore, S.S., Stothard, P., Liao, X., Coltman, D.W. (2015) Harnessing cross-species alignment to discover SNPs and generate a draft genome sequence of a bighorn sheep (*Ovis canadensis*). *BMC Genomics* 16: 397. *IF 3.867 Citations 2.*
 32. Munns, K.D., Selinger, L.B., Stanford, K., Guan, L.L., Callaway, T.R., McAllister, T.A. (2015) Perspectives on super-shedding of *Escherichia coli* O157:H7 by cattle. *Foodborne Pathogens and Disease* 12: 89-103. *IF 2.27 Citations 5.*
 33. Paradis, F., Yue, S., Grant, J.R., Stothard, P., Basarab, J., Fitzsimmons, C. (2015) Transcriptomic analysis by RNA-sequencing reveals that hepatic interferon-induced genes

- may be associated with feed efficiency in beef heifers. *Journal of Animal Science* 93: 3331-3341. *IF 2.014 Citations 5.*
34. Peters, D.L., Lynch, K.H., Stothard, P., Dennis, J.J. (2015) The isolation and characterization of two *Stenotrophomonas maltophilia* bacteriophages capable of cross-taxonomic order infectivity. *BMC Genomics* 16: 664. *IF 3.867 Citations 2.*
 35. Pickering, N.K., Oddy, V.H., Basarab, J., Cammack, K., Hayes, B., Hegarty, R.S., Lassen, J., McEwan, J.C., Miller, S., Pinares-Patiño, C.S., de Haas, Y. (2015) Animal board invited review: genetic possibilities to reduce enteric methane emissions from ruminants. *Animal* 9: 1431–1440. *IF ? Citations 14.*
 36. Pourabedin, M., Guan, L.L., Xin, Z. (2015) Xylo-oligosaccharides and virginiamycin differentially modulate gut microbial composition in chickens. *Microbiome* 3: 15. *IF ? Citations 5.*
 37. Qiao, J.Y., Tan, Z.L., Guan, L.L., Tang, S.X., Zhou, C.S., Han, X.F., Wang, M., Kang, J.H., He, Z.X. (2015) Effects of hydrogen in headspace and bicarbonate in media on rumen fermentation, methane production and methanogenic population using in vitro gas production techniques. *Animal Feed Science and Technology* 206: 19-28. *IF 1.713 Citations 1.*
 38. Romero-Perez, A., Okine, E.K., McGinn, S.M., Guan, L.L., Oba, M., Duval, S.M., Kindermann, M., Beauchemin, K.A. (2015) Sustained reduction in methane production from long-term addition of 3-nitrooxypropanol to a beef cattle diet. *Journal Animal Science* 93:1780-91. *IF 2.014 Citations 15.*
 39. Romero-Pérez, A., Okine, E.K., Guan, L.L., Duval, S.M., Kindermann, M., Beauchemin, K.A. (2015) Effects of 3-nitrooxypropanol on methane production using the rumen simulation technique (Rusitec). *Animal Feed Science and Technology* 209: 98–109. *IF 1.713 Citations 7.*
 40. Roy, B., Sedgewick, G., Aalhus, J. L., Basarab, J. A., Bruce, H. L. (2015) Modification of mature non-reducible collagen cross-link concentrations in bovine Gluteus medius and Semitendinosus muscles with steer age at slaughter, breed cross and growth promotants. *Meat Science* 110: 109-117. *IF 2.801 Citations 2.*
 41. Stothard, P., Liao, X., Arantes, A.S., De Pauw, M., Coros, C., Plastow, G.S., Sargolzaei, M., Crowley, J.J., Basarab, J.A., Schenkel, F., Moore, S., Miller, S.P. (2015) A large and diverse

collection of bovine genome sequences from the Canadian Cattle Genome Project.
GigaScience 4: 49. *IF 7.463 Citations 5.*

42. Sun, H.Z., Wang, D.M., Wang, B., Wang, J.K., Liu, H.Y., Guan, L.L., Jian-Xin Liu, J.X. (2015) Metabolomics of four biofluids from dairy cows: potential biomarkers for milk production and quality. *Journal of Proteome Research* 14: 1287-1298. *IF 4.173 Citations 8.*
43. Wang, Y., Wylie, T., Stothard, P., Lin, G. (2015) Whole genome SNP genotype piecemeal imputation. *BMC Bioinformatics* 16: 340. *IF 3.028 Citations 0.*
44. Wilkinson, J.M., Gunvaldsen, R.E., Detmer, S.E., Dyck, M.K., Dixon, W.T., Foxcroft, G.R., Plastow, G., Harding, J.C.S. (2015) Transcriptomic and epigenetic profiling of the lung of influenza-infected pigs: a comparison of different birth weight and susceptibility groups. *PLoS ONE* 10: e0138653. *IF 3.54 Citations 0.*
45. Yang, C.L., Guan, L.L., Liu, J.X., Wang, J.K. (2015) Rumen fermentation and acetogen population changes in response to an exogenous acetogen TWA4 strain and *Saccharomyces cerevisiae* fermentation product. *Journal of Zhejiang University Science B* 16: 709-19. doi:10.1631/jzus.B1500013. *IF ? Citations 0.*
46. Zhang C., Wang, Z., Bruce, H., Kemp, R.A., Charagu, P., Miar, Y., Yang, T., Plastow, G. (2015) Genome-wide association studies (GWAS) identify a QTL close to *PRKAG3* affecting meat pH and colour in crossbred commercial pigs. *BMC Genetics* 16: 33-44. *IF 2.152 Citations 4.*

2014

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. *IF 0.724 Citations 4.*
2. 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. *IF 2.152 Citations 7.*
3. 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. *IF 2.014 Citations 9.*
4. Bahitham, W., Liao, X., Peng, F., Bamforth, F., Chan, A., Mason, A., Stone, B., Stothard, P., Sergi, C. (2014) Mitochondriome and cholangiocellular carcinoma. *PLoS One* 9: e104694. *IF 3.54 Citations 4.*
 5. 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. *IF 3.54 Citations 8.*
 6. 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. *IF 2.408 Citations 27.*
 7. Berry, D.P., Kennedy, E., and Crowley, J.J. (2014) Genetics of Feed Intake and Efficiency. In *The Genetics of Cattle, Second Edition*. CABI publishers. ISBN: 1780642210.
 8. Chen, L., Li, C., Miller, S., Schenkel, F. (2014) Multi-population genomic prediction using a multi-task Bayesian learning model. *BMC Genetics* 15: 53. *IF 2.152 Citations 8.*
 9. Chen, L., Li, C., Sargolzaei, M., Schenkel, F. (2014) Impact of genotype imputation on the performance of GBLUP and Bayesian methods for genomic prediction. *PLoS ONE* 9: e101544. *IF 3.54 Citations 9.*
 10. Chen, L, Mao, F., Crews Jr., D.H., Vinsky, M., Li., C. (2014) Phenotypic and genetic relationships of feeding behavior with feed intake, growth performance, feed efficiency and carcass merit traits in Angus and Charolais steers. *Journal of Animal Science* 92: 974-983. *IF 2.014 Citations 6.*
 11. Choi, I., Bao, H., Kommadath, A., Hosseini, A., Sun, X., Meng, Y., Stothard, P., Plastow, G.S., Tuggle, C.K., Reecy, J.M., Fritz-Waters, E., Abrams, S.M., Lunney, J.K., Guan, L.L. (2014) Increasing gene discovery and coverage using RNA-seq of globin RNA reduced porcine blood samples. *BMC Genomics* 15: 954. *IF 3.867 Citations 6.*

12. Choi, I., Kim, R., Lim, H.W., Kaestner, K.H., Won, K.J. (2014) 5-hydroxymethylcytosine represses the activity of enhancers in embryonic stem cells: a new epigenetic signature for gene regulation. *BMC genomics* 15, 670. *IF 3.867 Citations 8*.
13. 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. *IF 3.54 Citations 15*.
14. 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., Gulbrandsen, 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. *IF 31.616 Citations 178*.
15. David, J., Barkema, H.W., Guan, L., De Buck, J. (2014) Gene-expression profiling of calves 6 and 9 months after inoculation with *Mycobacterium avium* subspecies *paratuberculosis*. *Veterinary Research* 45: 96. *IF 3.765 Citations 5*.
16. David, J., Barkema, H.W., Mortier, R., Gosh, S., Guan, L.L., De Buck, J. (2014) Gene expression profiling and putative biomarkers of calves 3 months after infection with *Mycobacterium avium* subspecies *paratuberculosis*. *Veterinary Immunology and Immunopathology* 160: 107-117. *IF 1.664 Citations 10*.
17. Ekine-Dzivenu, C., Chen, L., Vinsky, M., Aldai, N., Dugan, M.E.R., McAllister, T.A., Wang, Z., Okine, E., Li, C. (2014) Estimates of genetic parameters for fatty acids in brisket adipose tissue of Canadian commercial crossbred beef steers. *Meat Science* 96: 1517-1526. *IF 2.801 Citations 8*.
18. Engle, T., Jobman, E., Moural, T., McKnite, A., Bundy, J., Barnes, S., Davis, E., Galeota, J., Burkey, T., Plastow, G., Kachman, S., Ciobanu, D. (2014) Variation in time and magnitude of immune response and viremia in experimental challenges with Porcine circovirus 2b. *BMC Veterinary Research* 10: 286. *IF 1.377 Citations 5*.
19. Graham, M., Van Domselaar, G., Stothard, P. (2014) Prokaryotic genome sequencing and assembly. In: Tastan Bishop O (ed) *Bioinformatics and Data Analysis in Microbiology*: Caister Academic Press, Norfolk, UK, pp.25-49.

20. Haisan, J., Sun, Y.Q., Guan, L.L., Beauchemin, K., Iwaasa, A., Duval, S., Barreda, D., Oba, M. (2014) The effects of feeding 3-nitrooxypropanol on methane emissions and productivity of Holstein cows in mid lactation. *Journal of Dairy Science* 97: 3110-3119. *IF 2.408 Citations 27.*

21. Holdstock, J., Aalhus, J.L., Uttaro, B.A., López-Campos, Ó., Larsen, I.L., Bruce, H.L. (2014) The impact of ultimate pH on muscle characteristics and sensory attributes of the *longissimus thoracis* within the dark cutting (Canada B4) beef carcass grade. *Meat Science* 98: 842-849. *IF 2.801 Citations 2.*

22. Jamrozik, J., Miller, S.P. (2014) Genetic evaluation of calving ease in Canadian Simmentals using birth weight and gestation length as correlated traits. *Livestock Science* 162: 42-49. *IF 1.293 Citations 8.*

23. Jiao, J., Lu, Q., Tan, Z., Guan, L., Zhou, C., Tang, S., Han, X. (2014) In vitro evaluation of effects of gut region and fiber structure on the intestinal dominant bacterial diversity and functional bacterial species. *Anaerobe* 28: 168-77. *IF 2.424 Citations 4.*

24. Jin, W., Ibeagha-Awemu, E.M., Liang, G., Beaudoin, F., Zhao, X., Guan, L.L. (2014) Transcriptome microRNA profiling of bovine mammary epithelial cells challenged with *Escherichia coli* or *Staphylococcus aureus* bacteria reveals pathogen directed microRNA expression profiles. *BMC Genomics* 15: 181. *IF 3.867 Citations 28.*

25. Karisa, B., Moore, S., Plastow, G. (2014) Analysis of biological networks and biological pathways associated with residual feed intake in beef cattle. *Animal Science Journal* 85: 374-387. *IF 1.045 Citations 7.*

26. Karisa, B.K, Thomson, J., Wang, Z., Li, C., Montanholi, Y., Miller, S.P., Moore, S.S., Plastow, G.S. (2014) Plasma metabolites associated with residual feed intake and other productivity performance traits in beef cattle. *Livestock Science* 165: 200-211. *IF 1.293 Citations 5.*

27. Khansefid, M., Pryce, J.E., Bolormaa, S., Miller, S. P., Wang, Z., Li, C., Goddard, M.E. (2014) Estimation of genomic breeding values for residual feed intake in a multi-breed cattle population. *Journal of Animal Science* 92: 3270-3283. *IF 2.014 Citations.*

28. Kommadath, A., Bao, H., Arantes, A.S., Plastow, G.S., Tuggle, C.K., Bearson, S.M.D., Guan, L.L., Stothard, P. (2014) Gene co-expression network analysis identifies porcine

- genes associated with variation in Salmonella shedding. *BMC Genomics* 15: 452. *IF 3.867 Citations 19.*
29. Ladinig, A., Foxcroft, G., Ashley, C., Lunney, J.K., Plastow, G., Harding, J.C.S. (2014) Birth weight, intrauterine growth retardation and fetal susceptibility to porcine reproductive and respiratory syndrome virus. *PLoS ONE* 9: e109541. *IF 3.54 Citations 6.*
 30. Ladinig, A., Lunney, J.K., Souza, C.J.H., Ashley, C., Plastow, G., Harding, J.C.S. (2014) Cytokine profiles in pregnant gilts experimentally infected with porcine reproductive and respiratory syndrome virus and relationships with viral load and fetal outcome. *Veterinary Research* 45: 113. *IF 2.928 Citations 9.*
 31. Ladinig, A., Wilkinson, A., Ashley, C., Detmer, S.E., Lunney, J.K., Plastow, G., Harding, J.C.S. (2014) Variation in fetal outcome, viral load and ORF5 sequence mutations in a large scale study of phenotypic responses to late gestation exposure to type 2 porcine reproductive and respiratory syndrome virus. *PLoS ONE* 9: e96104. *IF 3.54 Citations 17.*
 32. Liang, Q., Malmuthuge, N., McFadden, T.B., Bao, H., Griebel, P.J., Stothard, P., Guan, L.L. (2014) Potential regulatory role of microRNAs in the development of bovine gastrointestinal tract during early life. *PLoS ONE* 9: e92592. *IF 3.54 Citations 23.*
 33. Liao, X., Bao, H., Meng, Y., Plastow, G., Moore, S., Stothard, P. (2014) Sequence, structural and expression divergence of duplicate genes in the bovine genome. *PLoS ONE* 9: e102868. *IF 3.54 Citations 3.*
 34. Liu, J., Wang, J., Zhu, W., Pu, Y., Guan, L.L., Liu, J-X. (2014) Monitoring the rumen pectinolytic bacteria *Treponema saccharophilum* using real-time PCR. *FEMS Microbiology Ecology* 87: 576-585. *IF 3.53 Citations 5.*
 35. López-Campos, Ó., Aalhus, J.L., Galbraith, J., Larsen, I. L., Juárez, M., Uttaro, B., Robertson, W. M. (2014) The relation of carcass physiological maturity to meat quality in the Canadian Bison Grading System. *Canadian Journal of Animal Science* 94: 55-62. *IF 0.724 Citations 3.*
 36. López-Campos, Ó., Aalhus, J.L., Prieto, N., Larsen, I. L., Juárez, M., Basarab, J.A. (2014) Effects of production system and growth promotants on the physiological maturity scores in steers. *Canadian Journal of Animal Science* 91: 607-617. *IF 0.724 Citations 0.*
 37. Malmuthuge, N., Griebel, P.J., Guan, L.L. (2014) Taxonomic identification of commensal bacteria associated with the mucosa and digesta throughout the gastrointestinal tract of pre-

- weaned calves. *Applied and Environmental Microbiology* 80: 2021-2028. IF 3.823 Citations 33.
38. Meale, S., Romao, J., McAllister, T., Guan, L.L., Alex, C. (2014) Effect of diet on microRNA expression in ovine subcutaneous and visceral adipose tissues. *Journal of Animal Science* 92: 3328-37. IF 2.014 Citations 7.
39. Mewis, J., Xu, S., Zuidhof, M., Guan, L.L. (2014) Research note: methodology for high quality RNA extraction from poultry whole blood for further gene expression analysis. *British Poultry Science* 55: 194-196. IF 0.933 Citations 2.
40. Miar, Y., Plastow, G.S, Bruce, H.L., Moore, S.S., Durunna, O.N., Nkrumah, J.D., Wang, Z. (2014) Estimation of genetic and phenotypic parameters for ultrasound and carcass merit traits in crossbred beef cattle. *Canadian Journal of Animal Science* 94: 273-280. IF 0.724 Citations 6.
41. Miar, Y., Plastow, G., Bruce, H., Moore, S., Manafiazar, G., Kemp, R., Charagu, P., Huisman, A., van Haandel, B., Zhang, C., McKay, R., Wang, Z. (2014) Genetic and phenotypic correlations between performance traits with meat quality and carcass characteristics in commercial crossbred pigs. *PLoS ONE* 9: e110105. IF 3.54 Citations 6.
42. Miar, Y., Plastow, G.S., Moore, S.S., Manafiazar, G., Charagu, P., Kemp, R.A., Van Haandel, B., Huisman, A.E., Zhang, C.Y., McKay, R.M., Bruce, H.L., Wang, Z. (2014) Genetic and phenotypic parameters for carcass and meat quality traits in commercial crossbred pigs. *Journal of Animal Science* 92: 2869-2884. IF 2.014 Citations 8.
43. Omana, D.A., Goddard, E., Plastow, G.S., Janz, J., Ma, L., Anders, S., Moore, S.S., Bruce, H.L. (2014) Influence of on-farm production practices on sensory and technological quality characteristics of pork loin. *Meat Science* 96: 315-320. IF 2.801 Citations 4.
44. Plastow, G., and Bruce, H. (2014) Modern genetics and genomic technologies and their application in the Meat Industry: red meat animals, poultry. p37-42. In *The Encyclopedia of Meat Sciences*, 2nd Edition. Ed. M. Dikeman and C. Devine. Academic Press, London. eBook ISBN: 9780123847348. IF n/a.
45. Prieto, N., López-Campos, Ó., Zijlstra, R., Uttaro, B., Aalhus, J.L. (2014) Discrimination of beef dark cutters using visible and near infrared reflectance spectroscopy. *Canadian Journal of Animal Science* 94: 445-454. IF 0.724 Citations 5.

46. Romao, J.M., He, M.L., McAllister, T.A., Guan, L.L. (2014) Effect of age on bovine subcutaneous fat proteome: molecular mechanisms of physiological variations during beef cattle growth. *Journal of Animal Science* 92: 3316-3327. *IF 2.014 Citations 5.*

47. Romao, J.M., Jin, W., He, M., McAllister, T., Guan, L.L. (2014) MicroRNAs in bovine adipogenesis: genomic context, expression and function. *BMC Genomics* 15: 137. *IF 3.867 Citations 21.*

48. Romero-Perez, A., Okine, E.K., McGinn, S.M., Guan, L.L., Oba, M., Duval, S.M., Beauchemin, K.A. (2014) The potential of 3-nitrooxipropanol to lower enteric methane emissions from beef cattle. *Journal of Animal Science* 92: 4682-93. *IF 2.014 Citations 23.*

49. Rothschild, M.F., Plastow, G.S. (2014) Applications of genomics to improve livestock in the developing world. *Livestock Science* 166: 76-83. *IF 1.293 Citations 10.*

50. Serão, N.V.L, Matika, O., Kemp, R.A., Harding, J.C.S., Bishop, S.C., Plastow, G.S., Dekkers, J.C.M. (2014) Genetic analysis of reproductive traits and antibody response in a PRRS outbreak herd. *Journal of Animal Science* 92: 2905-2921. *IF 2.014 Citations 18.*

51. Tang, G., Liu, J., Xue, J., Yang, R., Liu, T., Zeng, Z., Jiang, A., Jiang, Y., Li, M., Zhu, L., Bai, L., Shuai, S., Wang, Z., Li, X. (2014) Optimizing selection strategies of genomic selection in swine breeding program based on a dataset simulated. *Livestock Science* 166: 111-120. *IF 1.293 Citations 1.*

52. Tullio, R.R., Juárez, M., Larsen, I.L., Basarab, J.A., Aalhus, J.L. (2014) Short Communication: Influence of some meat quality parameters on beef tenderness. *Canadian Journal of Animal Science* 94: 455-458. *IF 0.724 Citations 1.*

53. Van Domselaar, G., Graham, M., Stothard, P. (2014) Prokaryotic genome annotation. In: Tastan Bishop O (ed) *Bioinformatics and Data Analysis in Microbiology*: Caister Academic Press, Norfolk, UK, pp. 81-111.

54. Ventura, R.V., Lu, D., Schenkel, F.S., Wang, Z., Li, C., Miller, S.P. (2014) Impact of reference population on accuracy of imputation from 6K to 50K SNP chips in purebred and crossbreed beef cattle. *Journal of Animal Science* 92: 1433-1444. *IF 2.014 Citations 13.*

55. Wood, K.M., Montanholi, Y., Fitzsimmons, C., Miller, S., McBride, B., Swanson, K. (2014) Characterization and evaluation of residual feed intake measured in mid- to late-gestation

mature beef cows and relationships with circulating serum metabolites and linear body measurements. *Canadian Journal of Animal Science* 94: 499-508. *IF 0.724 Citations 0.*

56. Xiang, R., Lee, A.M.C., Eindorf, T., Javadmanesh, A., Ghanipoor-Samami, M., Gugger, M., Fitzsimmons, C.J., Kruk, Z.A., Pitchford, W.S., Leviton, A.J., Thomsen, D.A., Beckman, I., Anderson, G.I., Burns, B.M., Rutley, D.L., Xian, C.J., Hiendleder, S. (2014) Widespread differential maternal and paternal genome effects on fetal bone phenotype at mid-gestation. *Journal of Bone and Mineral Research* 29: 2392-2404. *IF 5.622 Citations 1.*

57. Yang, X.Q., Youssef, M.K., Gill, C.O., Badoni, M., López-Campos, Ó. (2014) Effects of meat pH on growth of 11 species of psychrotolerant clostridia on vacuum packaged beef and blown pack spoilage of the product. *Food Microbiology* 39: 13-18. *IF 3.682 Citations 5.*

58. Zhang, C.Y., Wang, Z., Bruce, H.L., Janz, J., Goddard, E., Moore, S., Plastow, G.S. (2014) Associations between single nucleotide polymorphisms in 33 candidate genes and meat quality traits in commercial pigs. *Animal Genetics* 45: 508-516. *IF 1.779 Citations 6.*

59. Zhou, C., Dobrinsky, J., Tsoi, S., Foxcroft, G.R., Dixon, W.T., Stothard, P., Verstegen, J., Dyck, M.K. (2014) Characterization of the altered gene expression profile in early porcine embryos generated from parthenogenesis and somatic cell chromatin transfer. *PLoS ONE* 9: e91728. *IF 3.54 Citations 7.*

60. Zhou, M., Grebiel, P., Guan, L.L. (2014) Methanogen prevalence throughout the gastrointestinal tract of pre-weaned dairy calves. *Gut Microbes* 5: 628-638. *IF ? Citations 1.*

2013

1. 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. *IF 2.014 Citations 4.*

2. 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. *IF 0.724 Citations 8.*

3. 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. *IF 3.867 Citations 13.*

4. 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. *IF 1.508 Citations 41.*
5. Basu, U., Romao, J.M., Guan, L.L. (2013) Adipogenic transcriptome profiling using high throughput technologies. *Journal of Genomics* 1: 22-28. *IF n/a Citations 8.*
6. Berry, D.P., Crowley, J.J. (2013) Genetics of feed efficiency in dairy and beef cattle. *Journal of Animal Science* 91: 1594-1613. *IF 2.014 Citations 19.*
7. 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. *IF 2.014 Citations 19.*
8. 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. *IF 2.078 Citations 19.*
9. 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. *IF 2.67 Citations 14.*
10. Duan, Y., Huang, L., Xie, J., Yang, K., Yuan, F., Bruce, H.L., Plastow, G.S., Ma, J., Huang, L.S. (2013) Effect of temperature and pH on postmortem color development of porcine M. longissimus dorsi and M. semimembranosus. *Journal of the Science of Food and Agriculture* 93: 1206–1210. *IF 2.076 Citations 4.*
11. Durunna, N.O., Mujibi, F.D.N., Nkrumah, D.J., Basarab, J.A., Okine, E.K., Moore, S.S., Wang, Z. (2013) Genetic parameters for production and feeding behaviour traits in crossbred steers fed a finisher diet at different ages. *Canadian Journal of Animal Science* 93: 79-87. *IF 0.724 Citations 1.*
12. Han, C., Vinsky, M., Aldai, N., Dugan, M.E.R., McAllister, T.A., Li, C. (2013) Association analyses of DNA polymorphisms in bovine SREBP-1, LXR α , FADS1 genes with fatty acid composition in Canadian commercial crossbred beef steers. *Meat Science* 93: 429-436. *IF 2.801 Citations 13.*

13. Hernandez-Sanabria, E., Goonewardene, L.A., Wang, Z., Zhou, M., Moore, S.S., Guan, L.L. (2013) Influence of sire breed on the interplay among rumen microbial populations inhabiting the rumen liquid of the progeny in beef cattle. *PLoS ONE* 8: e58461. *IF 3.54 Citations 18*.
14. Jamrozik, J., McGrath, S., Kemp, R.A., Miller, S.P. (2013) Estimates of genetic parameters for stayability to consecutive calvings of Canadian Simmentals by random regression model. *Journal of Animal Science* 91: 3634-3643. *IF 2.014 Citations 5*.
15. Karisa, B.K., Moore, S.S., Plastow, G.S. (2013) Complicated relationships: a review of biological interaction networks and pathways in animal science. *Springer Science Reviews* 1: 73-83. *IF n/a. Citations 0*.
16. Karisa, B.K., Thomson, J., Wang, Z., Bruce, H.L., Plastow, G.S., Moore, S.S. (2013) Candidate genes and biological pathways associated with carcass quality traits in beef cattle. *Canadian Journal of Animal Science* 93: 295-306. *IF 0.724. Citations 0*.
17. Karisa, B.K., Thomson, J., Wang, Z., Stothard, P., Moore, S.S., Plastow, G.S. (2013) Candidate genes and single nucleotide polymorphisms associated with variation in residual feed intake in beef cattle. *Journal of Animal Science* 91: 3502-3513. *IF 2.014 Citations 17*.
18. Lee, K., Chung, W., Lee, S., Choi, J., Kim, J., Lim, D., Lee, S., Jang, G., Kim, B., Choy, Y., Liao, X., Stothard, P., Moore, S.S., Lee, S., Ahn, S., Kim, N., Kim, T. (2013) Whole-genome resequencing of Hanwoo (Korean cattle) and insight into regions of homozygosity. *BMC Genomics* 14: 519. *IF 3.867 Citations 30*.
19. Li, M., Tian, S., Jin, L., Zhou, G., Li, Y., Zhang, Y., Wang, T., Yeung, C.K.L., Chen, L., Ma, J., Zhang, J., Jiang, A., Li, J., Zhou, C., Zhang, J., Liu, Y., Sun, X., Zhao, H., Niu, Z., Lou, P., Xian, L., Shen, X., Liu, S., Zhang, S., Zhang, M., Zhu, L., Shuai, S., Bai, L., Tang, G., Liu, H., Jiang, Y., Mai, M., Xiao, J., Wang, X., Zhou, Q., Wang, Z., Stothard, P., Xue, M., Gao, X., Luo, Z., Gu, Y., Zhu, H., Hu, X., Zhao, Y., Plastow, G.S., Wang, J., Jiang, Z., Li, K., Li, N., Li, X., Li, R. (2013) Genomic analyses identify distinct patterns of selection in domesticated pigs and Tibetan wild boars. *Nature Genetics* 45: 1431-1438. *IF 31.616 Citations 106*.
20. Liao, X., Peng, F., Forni, S., McLaren, D., Plastow, G., Stothard, P. (2013) Whole genome sequencing of Gir cattle for identifying polymorphisms and loci under selection. *Genome* 56: 592-598. *IF 1.356 Citations 18*.

21. López-Campos, Ó., Aalhus, J.L., Okine, E.K., Baron, V.S., Basarab, J.A. (2013) Effects of calf- and yearling-fed beef production systems and growth promotants on production and profitability. *Canadian Journal of Animal Science* 93: 171-184. *IF 0.724 Citations 13.*
22. Lu, D., Miller, S., Sargolzaei, M., Kelly, M., Voort, G.V., Caldwell, T., Wang, Z., Plastow, G., Moore, S. (2013) Genome-wide association analyses for growth and feed efficiency traits in beef cattle. *Journal of Animal Science* 91: 3612-3633. *IF 2.014 Citations 30.*
23. Lu, D., Sargolzaei, M., Kelly, M., Vander Voort, G., Wang, Z., Mandell, I., Moore, S., Plastow, G., Miller, S.P. (2013) Genome-wide association analyses for carcass quality in crossbred beef cattle. *BMC Genetics* 14: 80. *IF 2.152 Citations 8.*
24. Lu, D., Sargolzaei, Li, C, Abo-Ismael, M., Voort, G.V., Wang, Z., Plastow, G., Moore, S., Miller, S. (2013) Association analysis for feed efficiency traits in beef cattle using preserved haplotypes. *Genome* 56: 586-591. *IF 1.356 Citations 1.*
25. Ludu, J. and Plastow, G. (2013) Livestock and the promise of genomics. *Genome* 56: 556-566. *IF 1.356 Citations 7.*
26. Malmuthuge, N., Li, M., Goonewardene, L.A., Oba, M., Guan, L.L. (2013) Effect of calf starter feeding on gut microbial diversity and expression of genes involved in host immune responses and tight junctions in dairy calves during weaning transition. *Journal of Dairy Science* 96: 3189-200. *IF 2.408 Citations 20.*
27. Manafiazar, G., McFadden, T., Goonewardene, L., Okine, E., Basarab, J., Li, P., Wang, Z. (2013) Prediction of residual feed intake for first lactation dairy cows using orthogonal polynomial random regression. *Journal of Dairy Science* 96: 7991-8001. *IF 2.408 Citations 6.*
28. Mao, F., Chen, L., Vinsky, M., Okine, E., Wang, Z., Basarab, J., Crews Jr., D.H., Li, C. (2013) Phenotypic and genetic relationships of feed efficiency with growth performance, ultrasound and carcass merit traits in Angus and Charolais steers. *Journal of Animal Science* 91: 2067-2076. *IF 2.014 Citations 18.*
29. Mapiye, C., Aalhus, J.L., Turner, T.D., Rolland, D.C., Basarab, J.A., McAllister, T.A., Block, H.C., Uttaro, B., López-Campos, Ó., Proctor, S.D., Dugan, M.E.R. (2013) Effects of feeding flaxseed or sunflower-seed in high-forage diets on beef production, quality and fatty acid composition. *Meat Science* 95: 98-109. *IF 2.801 Citations 28.*

30. Mapiye, C., Dugan, M.E.R., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L. (2013) Short Communication: Erythrocytes assayed early ante-mortem can predict adipose tissue and muscle trans-18:1 isomeric profiles of steers fed red clover silage supplemented with flaxseed. *Canadian Journal of Animal Science* 93: 149-153. *IF 0.724 Citations 1.*
31. Mapiye, C., Turner, T.D., Basarab, J.A., Baron, V.S., Aalhus, J.L., and Dugan, M.E.R (2013) Subcutaneous fatty acid composition of steers finished as weanlings or yearlings with and without growth promotants. *Journal of Animal Science and Biotechnology* 4: 41. *IF ? Citations 1.*
32. Mapiye, C., Turner, T.D., Rolland, D.C., Basarab, J.A., Baron, V.S., McAllister, T.A., Block, H.C., Uttaro, B., Aalhus, J.L., Dugan, M.E.R. (2013) Adipose tissue and muscle fatty acid profiles of steers fed red clover silage with and without flaxseed. *Livestock Science* 151: 11-20. *IF 1.293 Citations 17.*
33. Montanholi, Y., Fontoura, A., Swanson, K., Coomber, B., Yamashiro, S., Miller, S. (2013) Small intestine histomorphometry of beef cattle with divergent feed efficiency. *Acta Veterinaria Scandinavica* 55: 9. *IF 1.23 Citations 4.*
34. Montanholi, Y.R., Lam, S., Peripolli, V., Vander Voort, G., Miller, S.P. (2013) Short Communication: Associations between chemical composition and physical properties of milk and colostrum with feed efficiency in beef cows. *Canadian Journal of Animal Science* 93: 487-492. *IF 0.724 Citations 3.*
35. Montanholi, Y.R., Swanson, K.C., Palme, R., Vander Voort, G., Haas, L.S., Miller, S.P. (2013) On the relationship between glucocorticoids and feed efficiency in beef cattle. *Livestock Science* 155: 130-136. *IF 1.293 Citations 11.*
36. Pickering, N.K., de Haas, Y., Basarab, J.A., Cammack, K., Hayes, B., Hegarty, R.S., Lassen, J., McEwan, J.C., Miller, S., Pinares-Patiño, C.S., Shackell, G., Vercoe, P., Oddy, V.H. (2013) Consensus methods for breeding low methane emitting animals, a White Paper prepared by the Animal Selection, Genetics and Genomics Network of the Livestock Research Group of Global Research Alliance for reducing greenhouse gases from agriculture. <http://www.asggn.org/publications.listing.95.mpwg-white-paper.html>
37. Prieto, N., Bodas, R., López-Campos, Ó., Andrés, S., López, S., Giráldez, F.J. (2013) Effect of sunflower oil supplementation and milking frequency reduction on sheep milk production and composition. *Journal of Animal Science* 91: 446-454. *IF 2.014 Citations 2.*

38. Prieto, N., Dugan, M.E.R., López-Campos, Ó., Aalhus, J.L., Uttaro, B. (2013) At line prediction of PUFA and biohydrogenation intermediates in perirenal and subcutaneous fat from cattle fed sunflower or flaxseed by near infrared spectroscopy. *Meat Science* 94: 27-33. *IF 2.801 Citations 10.*

39. Romao, J.M., Jin, W., He, M., McAllister, T., Guan, L.L. (2013) Elucidation of molecular mechanisms of physiological variations between bovine subcutaneous and visceral fat depots under different nutritional regimes. *PLoS ONE* 8: e83211. *IF 3.54 Citations 5.*

40. Tang, G.Q., Xue, J., Lian, M.J., Yang, R.F., Liu, T.F., Zeng, Z.Y., Jiang, A.A., Jiang, Y.Z., Zhu, L., Bai, L., Wang, Z., Li, X.W. (2013) Inbreeding and genetic diversity in three imported swine breeds in China using pedigree data. *Asian-Australasian Journal of Animal Science* 26: 755-765. *IF 0.756 Citations 7.*

41. Vinsky, M., Islam, K., Chen, L., Li, C. (2013) Association analyses of a single nucleotide polymorphism in the promoter of OLR1 with growth, feed efficiency, fat deposition, and carcass merit traits in hybrid, Angus and Charolais beef cattle. *Canadian Journal of Animal Science* 93: 193-197. *IF 0.724 Citations 1.*

42. Willems, O.W., Miller, S.P., Wood, B.J. (2013) Aspects of selection for feed efficiency in meat producing poultry. *World's Poultry Science Journal* 69: 77-88. *IF 0.974 Citations 22.*

43. Wood, K.M., Awda, B.J., Fitzsimmons, C., Miller, S.P., McBride, B.W., Swanson, K.C. (2013) Effect of moderate dietary restriction on visceral organ weight, hepatic oxygen consumption, and metabolic proteins associated with energy balance in mature pregnant beef cows. *Journal of Animal Science* 91: 4245-4255. *IF 2.014 Citations 7.*

44. Wood, K.M., Awda, B.J., Fitzsimmons, C., Miller, S.P., McBride, B.W., Swanson, K.C. (2013) Influence of pregnancy in mid-to-late gestation on circulating metabolites, visceral organ mass, and abundance of proteins relating to energy metabolism in mature beef cows. *Journal of Animal Science* 91: 5775-5784. *IF 2.014 Citations 3.*

45. Xiang, R., Ghanipour-Samami, M., Johns, W.H., Eindorf, T., Rutley, D.L., Kruk, Z., Fitzsimmons, C.J., Thomsen, D.A., Roberts, C.T., Burns, B.M., Anderson, G.A., Greenwood, P.L., Hiendleder, S. (2013) Maternal and paternal genomes differentially affect myofibre characteristics and muscle weights of bovine fetuses at midgestation. *PLoS ONE* 8: e53402. *IF 3.54 Citations 4.*

46. Zhou, M., Hunerberg, M., Beauchemin, K.A., McAllister, T.A., Okine, E., Guan, L.L. (2013) Individuality of ruminal methanogen/protozoa populations in beef cattle fed diets containing dried distillers' grain with solubles. *ACTA Agriculturae Scandinavica, Section A – Animal Science* 62: 453: 273-288. *IF 0.769 Citations 6.*
47. Zwambag, A., Kelly, M., Schenkel, F., Mandell, I., Wilton, J., Miller, S. (2013) Heritability of beef tenderness at different aging times and across breed comparisons. *Canadian Journal of Animal Science* 93: 307-312. *IF 0.724 Citations 2.*

2012

1. 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. *IF 1.464 Citations 11.*
2. 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. *IF ? Citations 25.*
3. 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) pp 123-144 Wiley-Blackwell, Ames, Iowa, USA. *IF n/a Citations n/a.*
4. 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. *IF 2.444 Citations 5.*
5. 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. *IF 2.43 Citations 7.*
6. 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. *IF 2.014 Citations 62.*
7. 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. *IF 2.198 Citations 7.*

8. 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. IF 2.075 Citations 49.
9. 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. IF 1.621 Citations 4.
10. Case, L.A., Wood, B.J., Miller, S.P. (2012) The genetic parameters of feed efficiency and its component traits in the turkey (*Meleagris gallopavo*). *Genetics Selection Evolution* 44: 2-5. IF 2.895 Citations 15.
11. 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. IF 2.014 Citations 4.
12. 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. IF 2.564 Citations 34.
13. 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. IF 2.408 Citations 35.
14. Durunna, O.N., Colazo, M.G., Ambrose, D.J., McCartney, D., Baron, V.S., Basarab, J.A. (2012) Evidence of residual feed intake reranking in crossbred replacement heifers. *Journal of Animal Science* 90: 734-741. IF 2.014 Citations 31.
15. Girard, I., Aalhus, J.L., Basarab, J.A., Larsen, I.L., Bruce, H.L. (2011) Modification of beef quality through steer age at slaughter, breed cross and growth promotants. *Canadian Journal of Animal Science* 91: 635-648. IF 0.724 Citations 7.
16. Girard, I., Bruce, H.L., Basarab, J.A., Larsen, I.L., Aalhus, J. L. (2012) Contribution of myofibrillar and connective tissue components to the Warner-Bratzler shear force of cooked beef. *Meat Science* 92: 775-782. IF 2.801 Citations 13.
17. Goonewardene, L.A., Basarab, J.A., Wang, Z., Price, M.A., Ramsey, P., Marx, T., Aalhus, J., Seneviratne, R.W., Yalingasinghe, W.G.N.P., Okine, E.K. (2012) Tissue distribution in

- primal cuts of Canadian beef composites and opportunities for harvesting younger and leaner cattle. *International Journal of Animal & Veterinary Advances* 4: 1-15. *IF n/a Citations 1.*
18. Grant, J.R., Arantes, A.S., Stothard, P. (2012) Comparing thousands of circular genomes using the CGView Comparison Tool. *BMC Genomics* 13: 202. *IF 3.867 Citations 65.*
19. Hernandez-Sanabria, E., Goonewardene, L.A., Wang, Z., Durunna, O.N., Moore, S.S., Guan, L.L. (2012) Impact of feed efficiency and diet on adaptive variations in the bacterial community in the rumen fluid of cattle. *Applied and Environmental Microbiology* 78: 1203-14. *IF 3.823 Citations 56.*
20. Hu, X.S., Simila, J., Platz, S.S., Moore, S.S., Plastow, G., Meghen, C.N. (2012) Estimating animal abundance in ground beef batches assayed with molecular markers. *PLoS ONE* 7: e34191. *IF 3.54 Citations 0.*
21. Hu, Z., Wang, Z., Xu, S. (2012) An infinitesimal model for quantitative trait genomic value prediction. *PLoS ONE* 7: e41336. *IF 3.54 Citations 5.*
22. Jamrozik, J., McGrath, S., Kemp, R.A., Miller, S.P. (2012) Genetic analysis of female fertility traits in Canadian Simmentals. *Livestock Science* 150: 302-309. *IF 1.293 Citations 2.*
23. Jiang, Q., Wang, Z., Moore, S.S., Yang, R-C. (2012) Genome-wide analysis of zygotic linkage disequilibrium and its components in crossbred cattle. *BMC Genetics* 13: 65. *IF 2.152 Citations 5.*
24. Juárez, M., Dugan, M.E.R., Aldai, N., Basarab, J.A., Baron, V.S., McAllister, T.A., Aalhus, J.L. (2012) Beef quality attributes as affected by increasing the intramuscular levels of vitamin E and omega-3 fatty acids. *Meat Science* 90: 764-769. *IF 2.801 Citations 30.*
25. Jin, W., Olson, E.N., Moore, S.S., Basarab, J.A., Basu, U., Guan, L.L. (2012) Transcriptome analysis of subcutaneous adipose tissues in beef cattle using 3' digital gene expression-tag profiling. *Journal of Animal Science* 271: 428-37. *IF 2.014 Citations 21.*
26. Laarman, A.H., Ruiz-Sanchez, A.L., Sugino, T., Guan, L.L., Oba, M. (2012) Effects of feeding a calf starter on molecular adaptations in the ruminal epithelium and liver of Holstein dairy calves. *Journal of Dairy Science* 95: 2585-94. *IF 2.408 Citations 30.*

27. Li, M., Wu, H., Luo, Z., Xia, Y., Guan, J., Wang, T., Gu, Y., Chen, L., Zhang, K., Ma, J., Liu, Y., Zhong, Z., Nie, J., Zhou, S., Mu, Z., Wang, X., Qu, J., Jing, L., Wang, H., Huang, S., Yi, N., Wang, Z., Xi, D., Wang, J., Yin, G., Wang, L., Li, N., Jiang, Z., Lang, Q., Xiao, H., Jiang, A., Zhu, L., Jiang, Y., Tang, G., Mai, M., Shuai, S., Li, N., Li, K., Wang, J., Zhang, X, Li, Y., Chen, H., Gao, X., Plastow, G.S., Beck, S., Yang, H., Wang, J., Wang, Y., Li, X., Li, R. (2012) An atlas of DNA methylomes in porcine adipose and muscle tissues. *Nature Communications* 3: 850. *IF 11.329 Citations 65*.
28. Li, M., Zhou, M., Adamowicz, E., Basarab, J.A., Guan, L.L. (2012) Characterization of bovine ruminal epithelial bacterial communities using 16S rRNA sequencing, PCR-DGGE, and qRT-PCR analysis. *Veterinary Microbiology* 155: 72-80. *IF 2.564 Citations 38*.
29. López-Campos, Ó., Basarab, J.A., Baron, V.S., Aalhus, J.L., Juárez, M. (2012) Reduced age at slaughter in youthful beef cattle: Effects on carcass merit traits. *Canadian Journal of Animal Science* 92: 449-463. *IF 0.724 Citations 11*.
30. Lu, D., Sargolzaei, M., Kelly, M., Li, C., Vander Voort, G., Wang, Z., Plastow, G., Moore, S., Miller, S. (2012) Linkage disequilibrium in Angus, Charolais and crossbred beef cattle. *Frontiers in Genetics - Livestock Genomics* 3:152. *IF n/a Citations 30*.
31. Lynch, K.H., Stothard, P., Dennis, J.J. (2012) Characterization of DC1, a broad host range Bcep22-like podovirus. *Applied and Environmental Microbiology* 78: 889-891. *IF 3.823 Citations 11*.
32. Lynch, K.H., Stothard, P., Dennis, J.J. (2012) Comparative analysis of two phenotypically-similar but genomically-distinct Burkholderia cenocepacia-specific bacteriophages. *BMC Genomics* 13: 223. *IF 3.867 Citations 18*.
33. Malmuthuge, N., Li, M., Chen, Y., Fries, P., Griebel, P.J., Baurhoo, B., Zhao, X., Guan, L.L. (2012) Distinct commensal bacteria associated with ingesta and mucosal epithelium in the gastro-intestinal tracts of calves and chickens. *FEMS Microbiology Ecology* 79: 337-47. *IF 3.53 Citations 25*.
34. Malmuthuge, N., Li, M., Fries, P., Griebel, P.J., Guan, L.L. (2012) Regional and age dependent changes in expression of Toll-like receptors and key antimicrobial defence molecules through gastro intestinal tract of dairy calves. *Veterinary Immunology and Immunopathology* 146: 18-26. *IF 1.664 Citations 27*.
35. Manafiazar, G., McFadden, T., Goonewardene, L., Okine, E., Wang, Z. (2012) Factors that affect energy efficiency and indirect response of selection for efficiency on some related traits. In: Milk Production - An Up-to-Date Overview of Animal Nutrition, Management and

- Health, N. Chaiyabutr (Ed.), ISBN: 978-953-51-0765-1, InTech, DOI: 10.5772/50776. *IF n/a Citations n/a.*
36. Mapiye, C., Dugan, M.E.R, Juárez, M., Basarab, J.A., Baron, V.S., Turner, T.D., Yang, X.Q., Aldai, N., Aalhus, J.L. (2012) Influence of α -tocopherol supplementation on *trans*-18:1 and conjugated linoleic acid profiles in beef from steers fed a barley-based diet. *Animal* 6: 1888-1896. *IF 1.508 Citations 11.*
37. McGregor, E.M., Campbell, C.P., Miller, S.P., Purslow, P.P., Mandell, I.B. (2012) Effect of nutritional regimen including limit feeding and breed on growth performance, carcass characteristics and meat quality in beef cattle. *Canadian Journal of Animal Science* 92: 327-341. *IF 0.724 Citations 6.*
38. Nalaila, S.M., Stothard, P., Moore, S.S., Li, C., Wang, Z. (2012) Whole genome QTL scan for ultrasound and carcass merit traits in beef cattle using Bayesian shrinkage method. *Journal of Animal Breeding and Genetics* 129: 107-119. *IF 1.745 Citations 18.*
39. Plastow, G.S. (2012) What is Genomics? A Canadian Advantage. *Advances in Pork Production* 23: 139-143. *IF n/a Citations n/a.*
40. Romao, J.M., Jin, W., He, M., McAllister, T., Guan, L.L. (2012) Altered microRNA expression in bovine subcutaneous and visceral adipose tissues from cattle under different diet. *PLoS ONE* 7: e40605. *IF 3.54 Citations 35.*
41. Salim, H., Wood, K.M., Abo-Ismael, M.K., McEwen, P.L., Mandell, I.B., Miller, S.P., Cant, J.P., Swanson, K.C. (2012) Influence of feeding increasing levels of dry corn distillers grains plus solubles in whole corn grain-based finishing diets on total tract digestion, nutrient balance, and excretion in beef steers. *Journal of Animal Science* 90: 4441-4448. *IF 2.014. Citations 6.*
42. Schlau, N., Guan, L.L., Oba, M. (2012) The relationship between rumen acidosis resistance and expression of genes involved in regulation of intracellular pH and butyrate metabolism of ruminal epithelial cells in steers. *Journal of Dairy Science* 95: 5866-75. *IF 2.408 Citations 2.*
43. Suzuki, K., Kobayashi, E., Yamashita, H., Uenishi, H., Churkina, I., Plastow, G., Hamasima, N., Mitsuhashi, T. (2012) Structural analysis of MHC alleles in an RSV-tumor regression chicken using a BAC library. *Animal Genetics* 43: 348-351. *IF 1.779 Citations 4.*

44. Thomson, J.M., Bowles, V., Choi, J., Basu, U., Meng, Y., Stothard, P., Moore, S.S. (2012) The identification of candidate genes and SNP markers for classical bovine spongiform encephalopathy susceptibility. *Prion* 6: 461-469. *IF 2.444 Citations 2.*
45. Wang, Y., Cai, Z., Stothard, P., Moore, S.S., Goebel, R., Wang, L., Lin, G. (2012) Fast accurate missing SNP genotype local imputation. *BMC Research Notes* 5: 404. *IF n/a Citations 17.*
46. Wang, Z., Colazo, M.G., Basarab, J.A., Goonewardene, L.A., Ambrose, D.J., Marques, E., Plastow, G., Miller, S.P., and Moore, S.S. (2012) Impact of selection for residual feed intake on breeding soundness and reproductive performance of bulls on pasture-based multi-sire mating. *Journal of Animal Science* 90: 2963-2969. *IF 2.014 Citations 17.*
47. Zeng, Z., Tang, G., Ma, J., Plastow, G., Moore, S., Lai, S., Li, X., Wang, Z. (2012) Developing a genome-wide selection model for genetic improvement of residual feed intake and carcass merit in a beef cattle breeding program. *Chinese Science Bulletin* 57: 2741-2746. *IF 1.789 Citations 3.*

2011

1. 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. *IF 2.243 Citations 11.*
2. 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. *IF 1.013 Citations 8.*
3. 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. *IF 3.54 Citations 18.*
4. Andersson, L., Plastow, G. (2011) Molecular Genetics of Coat Colour Variation p 38-50 in *The Genetics of the Pig*. Ed. Rothschild, M.F., Ruvinsky, A. CABI. *IF n/a Citations 11.*
5. 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. *IF 2.243 Citations 5.*
6. 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: 134-144. *IF n/a Citations 18.*
 7. 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. *IF 3.823 Citations 2.*
 8. Clark, M.S., Thorne, M.A.S., Toullec, J-V., Meng, Y., Guan, L.L., Peck, L.S., Moore, S.S. (2011) Antarctic Krill 454 pyrosequencing reveals chaperone and stress transcriptome. *PLoS ONE* 6: e15919. *IF 3.54 Citations 65.*
 9. Cruz, J., Liu, Y., Liang, Y., Zhou, Y., Wilson, M., Dennis, J.J., Stothard, P., Van Domselaar, G., Wishart, D.S. (2011) BacMap: an up-to-date electronic atlas of annotated bacterial genomes. *Nucleic Acids Research* 40: D599-D604. *IF 9.202 Citations 5.*
 10. Dodson, M.V., Hausman, G.J., Guan, L.L., Du, M., Jiang, Z. (2011) Potential impact of mature adipocyte dedifferentiation in terms of cell numbers. *International Journal of Stem Cells* 4: 76-78. *IF n/a Citations 8.*
 11. Dodson, M.V., Mir, P.S., Hausman, G.J., Guan, L.L., Du, M., Jiang, Z., Fernyhough, M.E., Bergen, W.G. (2011) Obesity, metabolic syndrome, and adipocytes. *Journal of Lipids* 2011: 721686. *IF n/a Citations 28.*
 12. Durunna, O.N., Plastow, G., Mujibi, F.D.N., Grant, J., Mah, J., Basarab, J.A., Okine, E.K., Moore, S. S., Wang, Z. (2011) Genetic parameters and genotype x environment interaction for feed efficiency traits in steers fed grower and finisher diets. *Journal of Animal Science* 89: 3394-3400. *IF 2.014 Citations 12.*
 13. Durunna, O.N., Mujibi, F.D.N., Goonewardene, L.A., Okine, E.K., Basarab, J.A., Wang, Z., Moore, S.S. (2011) Feed-efficiency differences and reranking in beef steers fed grower and finisher diets. *Journal of Animal Science* 89: 158-167. *IF 2.014 Citations 66.*
 14. Durunna, O.N., Wang, Z., Basarab, J.A., Okine, E.K., Moore, S.S. (2011) Phenotypic and genetic relationships among feeding behaviors traits, feed intake and residual feed intake in steers fed grower and finisher diets. *Journal of Animal Science* 89: 3401-3409. *IF 2.014*

Citations 24.

15. Fries, P., Popowych, Y.I., Guan, L.L., Beskorwayne, T., Potter, A., Babiuk, L., Griebel, P.J. (2011) Mucosal dendritic cell subpopulations in the small intestine of newborn calves. *Developmental and Comparative Immunology* 35: 1040-51. *IF 3.62 Citations 11.*
16. Fries, P.N., Popowych, Y.I., Guan, L.L., Griebel, P.J. (2011) Age-related changes in the distribution and frequency of myeloid and T cell populations in the small intestine of calves. *Cellular Immunology* 271: 428-37. *IF 2.399 Citations 11.*
17. Girard, I., Aalhus, J.L., Basarab, J.A., Larsen, I.L., Bruce, H.L. (2011) Modification of muscle inherent properties through age at slaughter, growth promotants and breed crosses. *Canadian Journal of Animal Science* 91: 635-648. *IF 0.724 Citations 9.*
18. Grant, J.R., Arantes, A.S., Liao, X., Stothard, P. (2011) In-depth annotation of SNPs arising from resequencing projects using NGS-SNP. *Bioinformatics* 27: 2300-2301. *IF 5.766 Citations 68.*
19. Hamidu, J.A., Fassenko, G.M., Guan L.L., Barreda, D.R., Feddes, J.J.R. (2011) Influence of parent flock age on embryonic metabolism in modern turkey strains. *Journal of Poultry Science* 90: 426-34. *IF 0.513 Citations 3.*
20. Hamidu, J.A., Uddin, Z., Fassenko, G., Guan, L.L., Barreda, D.R. (2011) Broiler egg storage induces cell death and influences embryo quality. *Journal of Poultry Science* 90: 1749-57. *IF 0.513 Citations 18.*
21. Hu, X.S., Wang, Z. (2011) Estimating the correlation of non-allele descents along chromosomes. *Genetics Research* 93: 23-32. *IF 0.743 Citations 1.*
22. Hu, X.S., Yeh, F.C., Wang, Z. (2011) Structural genomics: correlation blocks, population structure, and genome architecture. *Current Genomics* 12: 55-70. *IF 2.43 Citations 5.*
23. Marques, E., Grant, J.R., Wang, Z., Kolbehdari, D., Stothard, P., Plastow, G., Moore, S.S. (2011) Identification of candidate markers on bovine chromosome 14 (BTA14) under milk production trait quantitative trait loci in Holstein. *Journal of Animal Breeding and Genetics* 128: 305-313. *IF 1.745 Citations 1.*
24. Mohammed, R., Zhou, M., Beauchemin, K. A., Guan, L.L. (2011) Evaluation of rumen methanogen diversity in cattle fed diets containing dry corn distillers grains and condensed

- tannins using PCR-DGGE and qRT-PCR analyses. *Animal Feed Science & Technology* 166-167: 122-131. *IF 1.713 Citations 16.*
25. Mujibi, F.D.N., Nkrumah, J.D., Durunna, O., Grant, J.R., Mah, J., Wang, Z., Basarab, J., Plastow, G., Crews Jr, D.H., Moore, S.S. (2011) Associations of marker panel scores with feed intake and efficiency traits in beef cattle using preselected single nucleotide polymorphisms. *Journal of Animal Science* 89: 3362-3371. *IF 2.014 Citations 12.*
26. Mujibi, F.D.N., Nkrumah, J.D., Durunna, O., Stothard, P., Mah, J., Wang, Z., Basarab, J., Plastow, G., Crews Jr, D.H., Moore, S.S. (2011) Accuracy of genomic breeding values for residual feed intake in crossbred beef cattle. *Journal of Animal Science* 89: 3353-3361. *IF 2.014 Citations 35.*
27. Omana, D.A., Plastow, G., Betti, M. (2011) The use of β -glucan as a partial salt replacer in high pressure processed chicken breast meat. *Food Chemistry* 129: 768-776. *IF 4.052 Citations 25.*
28. Omana, D.A., Plastow, G., Betti, M. (2011) Effect of different ingredients on color and oxidative characteristics of high pressure processed chicken breast meat with special emphasis on use of β -glucan as a partial salt replacer. *Innovative Food Science and Emerging Technologies* 12: 244-254. *IF 2.997 Citations 16.*
29. Romao, J.M., Jin, W., Dodson, M.V., Hausman, G.J., Moore, S.S., Guan, L.L. (2011) MicroRNA regulation in mammalian adipogenesis. *Experimental Biology and Medicine* 236: 997-1004. *IF 2.542 Citations 70.*
30. Stothard, P., Choi, J., Basu, U., Sumner-Thomson, J.M., Meng, Y., Liao, X., Moore, S.S. (2011) Whole genome resequencing of Black Angus and Holstein cattle for SNP and CNV discovery. *BMC Genomics* 12:559. *IF 3.867 Citations 86.*
31. Tang, G., Li, X., Plastow, G., Moore, S.S., and Wang, Z. (2011) Developing marker-assisted models for evaluating growth traits in Canadian beef cattle genetic improvement. *Livestock Science* 138: 62-68. *IF 1.293 Citations 10.*
32. Tang, G., Stewart-Smith, J., Plastow, G., Moore, S., Basarab, J., MacNeil, M.D., Wang, Z. (2011) Optimizing a beef production system using specialized sire and dam lines. *Canadian Journal of Animal Science* 91: 353-361. *IF 0.724 Citations 7.*

33. Wei, W.H., Skinner, T.M., Anderson, J.A., Southwood, O.I., Plastow, G., Archibald, A.L., Haley, C.S. (2011) Mapping QTL in the porcine MHC region affecting fatness and growth traits in a Meishan/Large White composite population. *Animal Genetics* 42: 83-85. *IF 1.779 Citations 4.*
34. Zhang, C., Plastow G. (2011) Genomic diversity in pig (*Sus scrofa*) and its comparison with human and other livestock. *Current Genomics* 12: 138-146. *IF 2.43 Citations 16.*
35. Zhou, M., Chung, Y., Beauchemin, K., Holtshausen, L., Oba, M., McAllister, T., Guan, L.L. (2011) Relationship between rumen methanogens and methane production in dairy cows fed diets supplemented with a feed enzyme additive. *Journal of Applied Microbiology* 111: 1148-58. *IF 2.156 Citations 42.*
36. Zhou, M., McAllister, T.A., Guan, L.L. (2011) Molecular identification of rumen methanogens: technologies, advantages and prospects. *Animal Feed Science & Technology* 166-167: 76-86. *IF 1.713 Citations 19.*

2010

1. 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. *IF 2.857 Citations 19.*
2. 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. *IF n/a Citations n/a.*
3. 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. *IF 9.202 Citations 31.*
4. Ciobanu, D.C., Bastiaansen, J.W.M., Magrin, J., Rocha, J.L., Jiang, D-H., Yu, N., Geiger, B., Deeb, N., Rocha, D., Gong, H., Kinghorn, B.P., Plastow, G.S., van der Steen, H.A.M., Mileham, A.J. (2010) A major SNP resource for dissection of phenotypic and genetic variation in Pacific white shrimp (*Litopenaeus vannamei*). *Animal Genetics* 41: 39-47. *IF 1.779 Citations 33.*
5. Dodson, M.V., Guan, L.L., Fernyhough, M.E., Mir, P.S., Bucci, L., McFarland, D.C., Novakofski, J., Reecy, J.M., Ajuwon, K.M., Thompson, D.P., Hausman, G.J., Benson, M., Bergen, W.G., Jiang, Z. (2010) Perspectives on the formation of an interdisciplinary

research team. *Biochemical and Biophysical Research Communications* 391: 1155-7. *IF 2.371 Citations 6.*

6. 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) Skeletal muscle stem cells from animals I. Basic cell biology. *International Journal of Biological Sciences* 6: 465-474. *IF 3.982 Citations 35.*
7. 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 Sciences* 6: 682-690. *IF 3.982 Citations 58.*
8. 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. *IF 1.649 Citations 48.*
9. Dodson, M.V., Vierck, J.L., Hausman, G.J., Guan, L.L., Fernyhough, M.E., Poulos, S.P., Mir, P.S., Jiang, Z. (2010) Examination of adipose depot-specific PPAR moieties. *Biochemical and Biophysical Research Communications* 394: 241-242. *IF 2.371 Citations 4.*
10. Gorbach, D.M., Makgahlela, M.L., Reecy, J.M., Kemp, S.J., Baltenweck, I., Ouma, R., Mwai, O., Marshall, K., Murdoch, B., Moore, S., Rothschild, M.F. (2010) Use of SNP genotyping to determine pedigree and breed composition of dairy cattle in Kenya. *Journal of Animal Breeding and Genetics* 127: 348-351. *IF 1.745 Citations 4.*
11. Hernandez-Sanabria, E., Guan, L.L., Goonewardene, L.A., Li, M., Mujibi, D., Stothard, P., Moore, S.S., Leon-Quintero, M.C. (2010) Correlation of particular PCR-denaturing gradient gel electrophoresis patterns with bovine ruminal fermentation parameters and feed efficiency traits. *Applied and Environmental Microbiology* 76: 6338-6350. *IF 3.823 Citations 40.*
12. Jin, W., Dodson, M.V., Moore, S.S., Basarab, J.A., Guan, L.L. (2010) Characterization of microRNA expression in bovine subcutaneous fat tissues: a potential regulatory mechanism of subcutaneous adipose tissue development. *BMC Molecular Biology* 11: 29. *IF Citations 68.*

13. Juarez, M., Dugan, M.E.R., Aalhus, J.L., Aldai, N., Basarab, J.A., Baron, V.S., McAllister, T.A. (2010) Dietary vitamin E inhibits the trans 10-18:1 shift in beef backfat. *Canadian Journal of Animal Science* 90: 9-12. *IF 0.724 Citations 18.*
14. Li, C., Aldai, N., Vinsky, M., Dugan, M.E.R., McAllister, T.A. (2010) Association analyses of single nucleotide polymorphisms in bovine stearoyl-CoA desaturase and fatty acid synthase genes with fatty acid composition in commercial crossbred beef steers. *Animal Genetics* 43: 93-97. *IF 1.779 Citations 33.*
15. Lu, Y.K., Marden, J., Han, M., Swingley, W.D., Mastrian, S.D., Chowdhury, S.R., Hao, J., Helmy, T., Kim, S., Kurdoglu, A.A., Matthies, H.J., Rollo, D., Stothard, P., Blankenship, R.E., Bauer, C.E., Touchman, J.W. (2010) Metabolic flexibility revealed in the genome of the cyst-forming alpha-1 protobacterium *Rhodospirillum centenum*. *BMC Genomics* 11: 325. *IF 3.867 Citations 24.*
16. Lynch, K.H., Seed, K.D., Stothard, P., Dennis, J.J. (2010) Inactivation of *Burkholderia cepacia* complex phage KS9 gp41 identifies the phage repressor and generates lytic virions. *Journal of Virology* 84: 1276-88. *IF 4.606 Citations 19.*
17. Lynch, K.H., Stothard, P., Dennis, J.J. (2010) Genomic analysis and relatedness of P2-like phages of the *Burkholderia cepacia* complex. *BMC Genomics* 11: 599. *IF 3.867 Citations 27.*
18. Miller, S. (2010) Genetic improvement of beef cattle through opportunities in genomics. *Revista Brasileira de Zootecnia* 39: 247-255. *IF 0.412 Citations 10.*
19. Montanholi, Y.R., Swanson, K.C., Palme, R., Schenkel, F.S., McBride, B.W., Lu, D., Miller, S.P. (2010) Assessing feed efficiency in beef steers through feeding behavior, infrared thermography and glucocorticoids. *Animal* 4: 692-701. *IF 1.508 Citations 61.*
20. Mujibi, F.D.N., Moore, S.S., Nkrumah, D.J., Wang, Z., Basarab, J.A. (2010) Season of testing and its effect on feed intake and efficiency in growing beef cattle. *Journal of Animal Science* 88: 3789-3799. *IF 2.014 Citations 20.*
21. Murdoch, B.M., Clawson, M.L., Laegreid, W.W., Stothard, P., Settles, M., McKay, S., Prasad, A., Wang, Z., Moore, S.S., Williams, J.L. (2010) A 2cM resolution genome-wide scan of European Holstein cattle affected by classical BSE. *BMC Genetics* 11: 20. *IF 2.152 Citations 17.*
22. Murdoch, B.M., Clawson, M.L., Yue, S., Basu, U., McKay, S., Settles, M., Capoferri, R., Laegreid, W.W., Williams, J.L., Moore, S.S. (2010) PRNP Haplotype Associated with

- Classical BSE Incidence in European Holstein Cattle. *PLoS ONE* 5: e12786. *IF* 3.54
Citations 14.
23. Pant, S.D., Schenkel, F.S., Verschoor, C.P., You, Q.M., Kelton, D.F., Moore, S.S., Karrow, N.A. (2010) A principal component regression based genome wide analysis approach reveals the presence of a novel QTL on BTA7 for MAP resistance in Holstein cattle. *Genomics* 95: 176-182. *IF* *Citations* 57.
24. Petkau, A., Stuart-Edwards, M., Stothard, P., Van Domselaar, G. (2010) Interactive microbial genome visualization with GView. *Bioinformatics* 26: 3125-3126. *IF* 5.766 *Citations* 53.
25. Sherman, E.L., Nkrumah, J.D., Moore, S.S. (2010) Whole genome single nucleotide polymorphism associations with feed intake and feed efficiency in beef cattle. *Journal of Animal Science* 88: 16-22. *IF* 2.014 *Citations* 66.
26. Suzuki, K., Matsumoto, T., Kobayashi, E., Uenishi, H., Churkina, I., Plastow, G., Yamashita, H., Hamasima, N., Mitsuhashi, T. (2010) Genotypes of chicken MHC-B locus associated with regression of *Rous Sarcoma* virus J-strain tumors. *Poultry Science* 89: 651-657. *IF* 1.685 *Citations* 5.
27. Tang, G., Lin, P., Wang, Z., Li, X. (2010) Optimal selection for multiple quantitative trait loci and contributions of individuals by genetic algorithm. *Livestock Science* 141: 242-251. *IF* 1.293 *Citations* 4.
28. Taniguchi, M., Penner, G., Beauchemin, K.A., Oba, M., Guan, L.L. (2010) Comparative analysis of gene expression profiles in ruminal tissue from Holstein dairy cows fed high or low concentrate diets. *Comparative Biochemistry and Physiology Part D. Genomics & Proteomics* 5: 274-9. *IF* 2.254 *Citations* 18.
29. Yang, K.X., Ma, J.W., Guo, Y.M., Guo, T.F., Zhao, Y.G., Ding, N.S., Betti, M., Plastow, G.S., Huang, L.S. (2010) Correlations between fat depot traits and fatty acid composition in abdominal subcutaneous adipose tissue and longissimus muscle: Results from a White Duroc x Erhualian intercross F2 population. *Journal of Animal Science* 88: 3538-3545. *IF* 2.014 *Citations* 17.
30. Zhao, Y.M., Basu, U., Dodson, M.V., Basarab, J.A., Guan, L.L. (2010) Proteome differences associated with fat metabolism in bovine subcutaneous fat. *Proteome Science* 8: 14. *IF* n/a *Citations* 28.

31. Zhou, M., Hernandez-Sanabria, E., Guan, L.L. (2010) Characterization of rumen methanogenic community variation under different diets and host feed efficiencies using PCR-DGGE analysis. *Applied and Environmental Microbiology* 76: 3776-86. IF 3.823 Citations 7.