

Publications

Peer reviewed publications

1. Abasht B., Zhou N., Lee W., Zhou Z., Peripolli E. 2018 The metabolic basis of susceptibility to wooden breast disease in chickens with high feed efficiency. *Poultry Science* (accepted)
2. Adetunji, M.O., Lamont, S.J., and Schmidt, C.J. 2018. TransAtlasDB: an integrated database connecting expression data, metadata and variants. *Database* 2018:1–15. doi: 10.1093/database/bay014
3. Adikari, A. M., Xu, J and Smith, E. J. 2018. Association of clock gene (turClock) polymorphism with growth and reproductive traits in turkeys, *Meleagris gallopavo*. *Int. J. Poult. Sci.*, 17 (12): 578-585, 2018.
4. Adikari, A. M., Xu, J and Smith, E. J. 2018. Association of polymorphisms in the Period3 (turPer3) gene with growth and reproductive traits in turkeys (*Meleagris gallopavo*). *Int. J. Poult. Sci.*, 17: 423-430.
5. Aggrey, S. E., F. González-Cerón, R. Rekaya and Y. Mercier, 2018. Gene expression differences in the methionine remethylation and transsulfuration pathways under methionine restriction and recovery with D, L-methionine or D,L-HMTBA in meat-type chickens. *Journal of Animal Physiology and Nutrition* 102: e468-e475.
6. Aguanta, B.N., A. L. Fuller, M. C. Milfort, S. M. Williams, R. Rekaya and S. E. Aggrey, 2018. Histological effects of concurrent heat stress and coccidial infection on the lymphoid tissue of broiler chickens. *Animal Diseases*; <https://doi.org/10.1637/11907-052818-Reg.1>
7. Amiri Roudbar, M., Abdollahi-Arpanahi, R., Ayatollahi Mehrgardi, A., Mohammadabadi, M., Taheri Yeganeh, A. and Rosa, G. J. M. Estimation of the variance due to parent-of-origin effects for productive and reproductive traits in Lori-Bakhtiari sheep. *Small Ruminant Research* 160: 95-102, 2018.
8. Ammari M, McCarthy F, Nanduri B. Leveraging Experimental Details for an Improved Understanding of Host-Pathogen Interactome. *Current Protocols in Bioinformatics*. 2018 Mar;61(1):8-26.
9. Amuzu-Aweh, N., Kayang, B.B., Muhairwa, A.P., Botchway, P.K., Naazie, A., Aning, K.G., Gallardo, R., Kelly, T.R., Zhou, H., Lamont, S.J., & Dekkers, J.C.M. (2018). Genetic parameters and genomic regions associated with growth rate and response to Newcastle disease in local chicken ecotypes in Ghana and Tanzania. *Proceedings of the World Congress on Genetics Applied to Livestock Production*, 11.774.
10. Athrey G, Faust N, Hieke ASC, Brisbin IL. Effective population sizes and adaptive genetic variation in a captive bird population. *PeerJ* (2018) DOI: 10.7717/peerj.5803
11. Baker, L. A., Rosa, G. J. M., Hao, Z., Piazza, A., Hoffman, C., Binversie, E. E., Sample, S. J. and Muir, P. Multivariate genome-wide association analysis identifies novel and relevant variants associated with anterior cruciate ligament rupture risk in the dog model. *BMC Genetics* 19:39, 2018.
12. Barnes NE, Strasburg GM, Velleman SG, and Reed KM. 2018. Thermal challenge alters the transcriptional profile of the breast muscle in turkey poults. *Poultry Science*, doi: 10.3382/ps/pey401.
13. Barnes NE, Strasburg GM, Velleman SG, and Reed KM. 2018. Thermal challenge alters the transcriptional profile of the breast muscle in turkey poults. *Poultry Science*, doi: 10.3382/ps/pey401.

Publications

14. Barrington, W, P. Wulfridge, A. Wells*, C. Rojas, S. Howe, A. Perry, K. Hua, M. Pellizon, K. Hansen, B. H. Voy, D. Pomp, and D. W. Threadgill. 2018. Optimizing Metabolic Health Through Precision Dietetics in Mice. *Genetics*, Jan;208(1):399-417, 2018.
15. Beckford, R*, E. Tague, S. Campagna, and B. H. Voy. 2018. Transcriptomic and Metabolomic Profiling of Chicken Adipose Tissue: Dual Purpose Benefit for Human Obesity and Poultry Production. *Current Metabolomics*.
16. Bello, N. M., Ferreira, V. C., Gianola, D. and Rosa, G. J. M. Conceptual framework for investigating causal effects from observational data in livestock. *Journal of Animal Science* 96(10): 4045-4062, 2018.
17. Bindu Nanduri, Cathy R. Gresham, Winnie W. Hui, Mark Ou, Richard H. Bailey and Mariola J. Edelmann* "Identifying chicken liver and spleen kinome by chemical proteomics". *Scientific reports*. (Manuscript under review, (Acknowledged NIFA funding)
18. Botchway, P.K., Amuzu-Aweh, N., Naazie, A., Aning, K.G., Zhou, H., Dekkers, J., Lamont, S.J., Gallardo, R., Kelly, T.R., Bunn, D., & Kayang, B.B. (2018). Genotypic and phenotypic characterisation of three local chicken ecotypes of Ghana based on principal component analysis and body measurements. *Proceedings of the World Congress on Genetics Applied to Livestock Production*, 11.812.
19. Bottje WG, Piekarski-Welsher A, Greene ES, Lassiter K, Anthony NB, Kong B, and Dridi S. 2018. Enrichment of autophagy and proteasome pathways in breast muscle of feed efficient pedigree male broilers. *Frontiers in Physiology*. 9:1342. doi: <https://doi.org/10.3389/fphys.2018.01342>.
20. Bresolin, T., Rosa, G. J. M., Valente, B. D., Espigolan, R., Gordo, D. G. M., Braz, C. U., Fernandes, G. A., Oliveira H. N. and Albuquerque, L. G. Effect of quality control, density and allele frequency of markers on the accuracy of genomic prediction for complex traits in Nellore cattle. *Animal Production Science*, 2018 (in press; <https://doi.org/10.1071/AN16821>)
21. Burns EN, Bordbari MH, Mienaltowski MJ, Affolter VK, Barro MV, Gianino F, Gianino G, Giulotto E, Kalbfleisch TS, Katzman SA, Lassaline M, Leeb T, Mack M, Müller EJ, MacLeod JN, Ming-Whitfield B, Alanis CR, Raudsepp T, Scott E, Vig S, Zhou H, Petersen JL, Bellone RR, Finno CJ. 2018. Generation of an equine biobank to be used for Functional Annotation of Animal Genomes project. *Anim Genet*. 49(6):564-570. doi: 10.1111/age.12717.
22. Chang, L.-Y. S. Toghiani, A. Ling, S. E. Aggrey, and R. Rekaya, 2018. High density marker panels, SNPs prioritizing and accuracy of genomic selection. *BMC Genetics* 19 (1) DOI 10.1186/s12863-017- 0595-2
23. Clemmons, B. A., B. H. Voy, and P. Myer. 2018. Altering the gut microbiome of cattle: Considerations of host-microbiome interactions for persistent microbiome manipulation. *Microbial Ecology*.
24. Cope, E.*, B. H. Voy, B. Whitlock, M. E. Staton, T. Lane, J. Davitt, and J. T. Mulliniks. 2018. Beta- hydroxybutyrate Infusion Identifies Acute Differentially Expressed Genes Related to Metabolism and Reproduction in the Hypothalamus and Pituitary of Sheep. *Physiological Genomics*, Jun 1;50(6):468-477. Epub 2018 Apr 6.
25. Deist, Herrmann, R. Gallardo, D. Bunn, J. Dekkers, H. Zhou, S. Lamont. 2017. Resistant and susceptible chicken lines show distinctive responses to Newcastle disease virus infection in the lung transcriptome. *BMC Genomics*201718:989.

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26. Deist, Herrmann, R. Gallardo, D. Bunn, J. Dekkers, H. Zhou, S. Lamont. 2018. Novel analysis of the Harderian gland transcriptome response to Newcastle disease virus in two inbred chicken lines. *Scientific Reports*. 8(1):6558. doi: 10.1038/s41598-018-24830-0.
27. Deist, M.S., Gallardo, R.A., Bunn, D.A., Kelly, T.R., Dekkers, J.C.M., Zhou, H., Lamont, S.J. 2018. Novel analysis of the Harderian gland transcriptome response to Newcastle disease virus in two inbred chicken lines. *Sci. Reports* 8:6558 DOI:10.1038/s41598-018-24830-0
28. Dey S., A. Parveen, K.J. Tarrant, T. Licknack, B.C. Kong, N.B. Anthony, D.D. Rhoads. 2018. Whole Genome Resequencing Identifies the CPQ Gene as a Determinant of Ascites Syndrome in Broilers. *PLOS One* 13(1): e0189544. <https://doi.org/10.1371/journal.pone.0189544>
29. Dórea, J. R. R., Rosa, G. J. M., Weld, K. A. and Armentano, L. E. Mining data from milk infrared spectroscopy to improve feed intake predictions in lactating dairy cows. *Journal of Dairy Science* 101(7): 5878-5889, 2018.
30. Drobik-Czwarno, W., Wolc, A., Fulton, J.E. and Dekkers, J.C., 2018. Detection of copy number variations in brown and white layers based on genotyping panels with different densities. *Genetics Selection Evolution*, 50(1), p.54.
31. Drobik-Czwarno, W., Wolc, A., Fulton, J.E., Arango, J., Jankowski, T., O'Sullivan, N.P. and Dekkers, J.C.M., 2018. Identifying the genetic basis for resistance to avian influenza in commercial egg layer chickens. *Animal*, 12(7), pp.1363-1371. DOI:10.1017/S1751731117002889
32. Drobik-Czwarno, W., Wolc, A., Fulton, J.E., Jankowski, T., Arango, J., O'Sullivan, N.P. and Dekkers, J., 2018. Genetic basis of resistance to avian influenza in different commercial varieties of layer chickens. *Poultry Science* 97:3421-3428. doi: 10.3382/ps/pey233.
33. Fulton JE, Bed'Hom B, and Miller MM. 2017. Chicken MHC-B diversity detected by a high-density MHC SNP panel. Platform and Poster presentations by JE Fulton. The 36th International Society for Animal Genetics Conference, Dublin, Ireland, July 1-21, 2017.
34. Garcia, J.S., Byrd J.A., and Wong E.A. 2018. Expression of nutrient transporters and host defense peptides in *Campylobacter* challenged broilers. *Poult. Sci.* 97:3671-3680. doi 10.3382/ps/pey228.
35. Gibson, C., E. Tague, S. Zaver, B. Woodall, E. Torchon*, H. Berthoud, B. H. Voy, and S. Campagna. 2018. A single UPLC-HRMS method for the profiling of bile acids and N-acyl amino acids in biological matrices: a tool for studying obesity-mediating metabolites and their expression. *Metabolomics*. (in review)
36. Goto RM, Zhang J, Fulton JE, Miller MM. 2018. Extensive Chicken MHC-Y Diversity. Platform. The XXVI Plant and Animal Genome Meeting, San Diego CA, January 13, 2018.
37. Goto, RM, Gugiu G, Stadtmueller BM, Bjorkman PJ, Miller MM. 2017. The ligands and polymorphic residues of chicken MHC YF class I-like molecules. Platform and Poster. The 36th International Society for Animal Genetics Conference, Dublin, Ireland, July 1- 21, 2017.
38. Gugiu G, Goto RM, and Miller MM. 2017. Identification of ligands for YF1*7.1, a novel MHC class I-like molecule. Poster. The 65th American Society of Mass Spectrometry Conference, Indianapolis, Indiana, June 4-8, 2017.
39. Habashy, W., M. C. Milfort, R. Rekaya and S. E. Aggrey, 2018. Expression of genes that encodes cellular oxidant/antioxidant enzyme are affected by heat stress in meat-type chickens. *Molecular Biology Reports* 45(3):389-394. doi: 10.1007/s11033-018-4173-0

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40. Huang, X., Elston, R. C., Rosa, G. J. M., Mayer, J., Ye, Z., Kitchner, T., Brilliant, M. H., Page, D. and Hebring, S. J. Applying family analyses to electronic health records to facilitate genetic research. *Bioinformatics* 34(4): 635-642, 2018.
41. Hubbard, A. H., Zhang, X., Singh, A., Jastrebski, S., Lamont, S.J., and Schmidt, C. 2018. Identifying mechanisms of regulation to model carbon flux during heat stress and generate testable hypotheses. *PLOS ONE* 13(10): e0205824. <https://doi.org/10.1371/journal.pone.0205824>
42. K. Rowland, Wolc. J. H. Zhou, R. Gallardo, T. Kelly, A. Dekkers, Lamont. S.J. Genome-Wide Association Study of a Commercial Egg Laying Line Challenged with Newcastle Disease Virus. *Front. Genet.*, 20 August 2018 | <https://doi.org/10.3389/fgene.2018.00326>
43. Kaminski, N.A. and Wong, E.A. 2018. Differential mRNA expression of nutrient transporters in male and female chickens. *Poult. Sci.* 97: 313-318.
44. Kang, S.W., S. Jayanthi, G. Nagarajan, T.K.S. Kumar and W.J. Kuenzel. 2018. Identification of avian vasotocin receptor subtype specific antagonists involved in the stress response of the chicken, *Gallus gallus*. *J. Biomolecular Structure and Dynamics*. doi: 10.1080/07391102.2018.1464957
45. Kayang, B.B., Amuzu-Aweh, N., Botchway, P.K., Tudeka, C.K., Naazie, A., Aning, K.G., Dekkers, J., Lamont, S.J., Gallardo, R., Kelly, T.R., Bunn, D., & Zhou, H. (2018). Performance of three local chicken ecotypes of Ghana naturally exposed to velogenic Newcastle disease virus. *Proceedings of the World Congress on Genetics Applied to Livestock Production*, 11.846.
46. Kern, C. P. P. Saelao, Y. Wang, M. Halstead, J. L. Chitwood, I. Korf, M. Delany, H. Cheng, J. F. Medrano, A. Van Eenennaam, C. W. Ernst. J. Ross, Zhou, H. 2018. Genome-wide identification of tissue-specific long non-coding RNA in three farm animal species. *BMC Genomics* doi.org/10.1186/s12864-018-5037-7.
47. Khatri B, Hayden AM, Anthony NB, Kong B. 2018. Whole Genome Resequencing of Arkansas Progressor and Regressor Line Chickens to Identify SNPs Associated with Tumor Regression. *Genes (Basel)*. 9(10):512. doi: 10.3390/genes9100512.
48. Khatri B, Seo D, Shouse S, Pan J, Hudson NJ, Kim J, Bottje WG, and Kong B. 2018. MicroRNA profiling associated with muscle growth in modern broilers compared to an unselected chicken breed. *BMC Genomics*. 19:683.
49. Kim, T.H. and H. Zhou. 2018. Overexpression of chicken IRF7 increased viral replication and programmed cell death to the avian influenza virus infection through TGF-beta/FoxO signaling axis in DF-1. *Frontiers in Genetics*. doi: 10.3389/fgene.2018.00415.
50. Kong HR, Anthony NB, Rowland KC, Khatri B, and Kong B. 2018. Genome re-sequencing to identify SNP markers for muscle color traits in broiler chickens. *Asian-Australas J Anim Sci.* 31(1):13-18. (Impact Factor: 1.39). doi: 10.5713/ajas.17.0479.
51. Kuenzel, W.J. 2018. Mapping the brain of the chicken (*Gallus gallus*), with emphasis on the septal-hypothalamic region. *Gen. Comp. Endocrinol.* 256: 4-15. doi:10.1016/j.ygen.2017.09.003.
52. Lassiter K, Dridi S, Greene E, Kong B, and Bottje WG. 2018. Identification of mitochondrial hormone receptors in avian muscle cells. *Poultry Science*. 97(8):2926-2933. doi: <https://doi.org/10.3382/ps/pey126>
53. Lei, Z., Y. Wu, W. Nie, D. Yin, X. Yin, Y. Guo, S.E. Aggrey, and J. Yuan, 2018. Transcriptomic analysis of xylan oligosaccharide utilization systems in *Pediococcus acidilactici* strain BCC-1. *J. Agric Food Chem.* 66: 4725-4733.

Publications

54. Lemcke, R. A., C.S. Stephens, K.A. Hildebrandt and P. A. Johnson. Anti-Müllerian hormone type II receptor in avian follicle development. *Biology of Reproduction* 99(6):1227-1234, 2018. <https://doi.org/10.1093/biolre/iyoy140>
55. Li, H., Wang, P., Lin, L., Shi, M., Gu, Z., Huang, T., Mo, M., Wei, T., Zhang, H., Wei, P. 2018. The emergence of the infection of subgroup J avian leukosis virus escalated the tumor incidence in commercial Yellow chickens in Southern China in recent years. *Transbound. Emerg. Dis.* 2018:1-5.
56. Li, X., Chen, W., Zhang, H., Li, A., Shu, D., Li, H., Dai, Z., Yan, Y., Zhang, X., Lin, W., Ma, J., Xie, Q. 2017. Naturally occurring frame-shift mutations in the tvb receptor gene are responsible for decreased susceptibility to subgroups B, D, and E. *J. Virol.* 92(8):e01770-17.
57. Lin, W., Xu, Z., Yan, Y., Zhang, H., Li, H., Chen, W., Chen, F., Xie, Q. 2018. Avian leukosis virus subgroup J attenuates type I interferon production through blocking IκB phosphorylation. *Front.Micro.* 9(1089):1-13.
58. Ling, A., E.H. Hay, S.E. Aggrey and R. Rekaya, 2018. A Bayesian approach for analysis of ordered categorical responses subject to misclassification. *PLoS ONE* 13(12):e0208433. DOI: 10.1371/journal.pone.0208433
59. Lopes, F. B., Wu, X.-L., Li, H., Xu, J., Perkins, T., Genho, J., Ferretti, R., Tait Jr. R. G., Bauck, S. and Rosa, G. J. M. Improving accuracy of genomic prediction in Brangus cattle by adding animals with imputed low-density SNP genotypes. *Journal of Animal Breeding and Genetics* 135: 14-27, 2018.
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62. Momen, M., Mehrgardi, A. A., Sheikhi, A., Kranis, A., Tusell, L., Morota, G., Rosa, G. J. M. and Gianola, D. Predictive ability of genome-assisted statistical models under various forms of gene action. *Scientific Reports* 8:12309, 2018.
63. Monson, M.S., Van Goor, A.G., Ashwell, C.M., Persia, M.P., Rothschild, M.F. Schmidt, C.J., Lamont, S.J. 2018. Immunomodulatory effects of heat stress and lipopolysaccharide on the bursal transcriptome in two distinct chicken lines. *BMC Genomics.* 2018 Aug 30;19(1):643. doi: 10.1186/s12864-018-5033-y
64. Morota, G., Rosa, G. J. M. and Gianola, D. Including phenotypic causal networks in genome-wide association studies using mixed effects structural equation models. *Frontiers in Genetics*, 9:455, 2018.
65. Muhairwa A. P. G.C. Chieanga. J.R. Mushi, P. M Msoffe, N. Amuzu-Aweh, M. Walugembe, Dekkers, J., Lamont, S.J., Gallardo, R., Kelly, T.R., & Zhou, H. (2018). Investigation of Genetic Resistance to Newcastle Disease in Local Chickens in Tanzania using Natural Challenge by Field Velogenic NDV Strains. *Proceedings of the World Congress on Genetics Applied to Livestock Production*, 11.812.
66. Mushi, J.R., Muhairwa A. P. G.C. Chieanga. P. M Msoffe, Dekkers, J., Lamont, S.J., Gallardo, R., Kelly, T.R., Bunn, D., & Zhou, H. (2018). Phenotypic and genotypic diversity of selected Free Range Local Chickens in Tanzania. *Proceedings of the World Congress on Genetics Applied to Livestock Production*, 11.812.
67. Papah, M.B., Brannick, E.M., Schmidt, C.J. and Abasht, B., 2018. Gene expression profiling of the early pathogenesis of wooden breast disease in commercial broiler chickens using RNA-sequencing. *PLoS One* (12), p.e0207346.

Publications

68. Payton, R. R., L. A. Rispoli, K. A. Nagel, C. Gondro, A. M. Saxton, B. H. Voy, and J. L. Edwards. 2018. Mitochondrial-related consequences of heat stress exposure during bovine oocyte maturation persist in early embryo development. *Journal of Reproduction and Development*, 64(3):243-251.
69. Piekarski, A., G. Nagarajan, P. Ishola, J. Flees, E.S. Greene, W.J. Kuenzel, T. Ohkubo, H. Maier, W.G. Bottje, M.A. Cline and S. Dridi. 2018. AMP-activated protein kinase mediates the effect of leptin on avian autophagy in a tissue-specific manner. *Front. Physiology*. 9:541. doi: 10.3389/fphys.2018.00541.
70. Ramos, S. B., Caetano, S. L., Rosa, G. J. M., Savegnago, R. P., Kern, E. L., Bernardes, P. A., Lôbo, R. B. and Munari, D. P. Estimation of genetic parameters for cow age at last calving under different censorship criteria. *Livestock Science* 208: 40-43, 2018.
71. Reed KM, Mendoza KM, Abrahante JE, and Coulombe RA. 2018. Comparative response of the hepatic transcriptomes of domesticated and wild turkey to aflatoxin B1. *Toxins (Basel)*, 13;10(1). pii: E42. doi: 10.3390/toxins10010042.
72. Research in our lab focused on genotypic-phenotype relationships also continued and would define a heritage strain useful for introgression (Smith).
73. Rowland, K., Saelao, P., Wang, Y., Fulton, J.E., Liebe, G. N., McCarron., A.M., Wolc, A., Gallardo, R.A., Kelly, T., Zhou, H., Dekkers, J.C.M., and Lamont, S.J. 2018. Association of candidate genes with response to heat and Newcastle disease virus. *GENES* 9, 560; doi:10.3390/genes9110560
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76. Saelao, P., Y. Wang, K. Chanthavixay, J. Dekkers, R. Gallardo, T.R. Kelly, S.J. Lamont. Zhou, H. 2018. Novel insights into the host immune response of chicken Harderian gland tissue during Newcastle disease virus infection and heat treatment. *BMC Veterinary Research* in press
77. Sheppe, A.E., Kummari, E., Richards, A., Hui, W.W., Lee, J.H., Mangum, L., Borazjani, A., Ross, M. and Edelman, M.J., 2018. PGE2 augments inflammasome activation and M1 polarization in macrophages infected with *Salmonella Typhimurium* and *Yersinia enterocolitica*. *Frontiers in Microbiology*, 9, p.2447. (Acknowledged NIFA funding)
78. Stephens, Claire E. and P. A. Johnson. *Reproductive Physiology of Poultry*. In: *Animal Agriculture: Challenges, Innovations, and Sustainability*. Ed. by Fuller W. Bazer, G. Cliff Lamb, and Guoyao Wu. Elsevier, in press.
79. Stephens, Claire E. and P.A. Johnson. Occludin expression and regulation in small follicles of the layer and broiler breeder hen. *General and Comparative Endocrinology*, 248:106-113, 2017.
80. Su, S., Miska, K.B., Fetterer, R.H., Jenkins, M.C., Lamont, S.J. Lamont and Wong, E.A. 2018 Differential expression of intestinal nutrient transporters and host defense peptides in *E. maxima* infected Fayoumi and Ross chickens. *Poult. Sci* doi: 10.3382/ps/pey286

Publications

81. Sumreddee, P., S. Toghiani, E.H. Hay, A. Roberts, S.E. Aggrey and R. Rekaya, 2018 Inbreeding depression in line 1 Hereford cattle population using pedigree and genomic information. *J. Anim. Sci.* doi: 10.1093/jas/sky385
82. Tarrant K, JE Fulton, A Lund, DD Rhoads, NB Anthony. 2018. Predicting ascites incidence in a simulated altitude-challenge using single nucleotide polymorphisms identified in multi-generational genome wide association studies. *Poultry Science* 97(11):3801-3806. doi.org/10.3382/ps/pey273.
83. Taylor RM, Bourget VG, Sunde RA 2018 High dietary inorganic selenium has minimal effects on turkeys and selenium status biomarkers. *Poult. Sci.* 97: doi: 10.3382/ps/pey413. PMID: 30239950
84. Tissue Level Diet and Sex-by-Diet Interactions Reveal Unique Metabolite and Clustering Profiles Using Untargeted Liquid Chromatography-Mass Spectrometry on Adipose, Skeletal Muscle, and Liver Tissue in C57BL6/J Mice. *Journal of Proteome Research*, e-pub Jan 26, 2018.
85. Vilar da Silva, J.H., F. Gonzalez-Ceron, E. W. Howerth, R. Rekaya and S. E. Aggrey, 2018. Inhibition of the transsulfuration pathway affects growth and feather follicle development in meat-type chickens. *Animal Biotechnol.* doi: 10.1080/10495398.2018.1461634
86. Vuia-Riser J, Hieke ASC, Athrey G, Kerth CR, Taylor TM. Comparison of buffered peptone water to neutralizing peptone water for Salmonella detection from commercially slaughtered whole chicken carcasses and cut chicken parts. *Food Protection Trends* (2018) 38:410-420
87. Wang Q, Li Q, Liu T, Chang G, Sun Z, Gao Z, Wang F, Zhou H, Liu R, Zheng M, Cui H, Chen G, Li H, Yuan X, Wen J, Peng D, Zhao G. 2018. Host Interaction Analysis of PA-N155 and PA-N182 in Chicken Cells Reveals an Essential Role of UBA52 for Replication of H5N1 Avian Influenza Virus. *Front Microbiol.* 9:936. doi: 10.3389/fmicb.2018.00936.
88. Wang, Y, Saelao, K. Chanthavixay P., R. Gallardo, D,A, Bunn, S.J. Lamont. J.K. Dekkers, T. R. Kelly, Zhou, H. 2018. Physiological Responses to Heat Stress in Two Genetically Distinct Chicken Inbred Lines. *Poult. Sci.* , pex363, <https://doi.org/10.3382/ps/pex363>
89. Wang, Y., Mi, X., Rosa, G. J. M., Chen, Z., Lin, P., Wang, S. and Bao, Z. Technical note: an R package for fitting sparse neural networks with application in animal breeding. *Journal of Animal Science*
90. Webb, A.E., Youngworth, I.A., Kaya, M., Gitter, C.L., O'Hare, E.A., May, B.P., Cheng, H.H., and Delany, M.E. 2018. Narrowing the wingless-2 mutation to a 227 kb candidate region on chicken chromosome 12. *Poultry Sci.* 97:1872-1880.
91. Wells, A.*, W. Barrington, S. Dearth, A. May, D. Threadgill, S. Campagna, and B. H. Voy. 2018.
92. Wilson B. K, T. Kelly, D.A. Bunn, and H. Zhou. 2018. Key criteria and models for implementing a sustainable chicken breeding and distribution program for smallholder poultry producers. *Livestock Research for Rural Development.* 30 (4), Article #67. Retrieved April 13, 2018, <http://www.lrrd.org/lrrd30/4/wils30067.html>.
93. Wolc, A., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P. and Dekkers, J.C.M., 2018. Genome wide association study for heat stress induced mortality in a white egg layer line. *Poultry science.* 0:1-5 DOI:10.3382/ps/pey403
94. Wolc, A., Drobik-Czwarno, W., Fulton, J.E., Arango, J., Jankowski, T. and Dekkers, J.C., 2018. Genomic prediction of avian influenza infection outcome in layer chickens. *Genetics Selection Evolution*, 50(1), p.21.

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