

Ballou AL, Ali RA, Mendoza MA, Ellis JC, Hassan HM, Croom WJ, Koci MD. [Development of the chick microbiome: How early exposure influences future microbial diversity](#). *Front Vet Sci*. 2016 Jan 20;3:2. doi: 10.3389/fvets.2016.00002. eCollection 2016. PubMed PMID: 26835461.

Bellone RR, Boichard M, Chamberlain A, Cheng H, Crooijmans RP, Delany ME⁷, Finno CJ, Groenen MA, Hayes B, Lunney JK, Petersen JL, Plastow GS, Schmidt CJ, Song J, Watson M. GO-FAANG meeting: a Gathering On Functional Annotation of Animal Genomes. *Anim Genet*. 2016 Jul 24. doi: 10.1111/age.12466.

Erf, G. F., and I. R. Ramachandran. 2016. The growing feather as a dermal test-site: comparison of leukocyte profiles during the response to *Mycobacterium butyricum* in growing feathers, wattles, and wing webs. *Poult. Sci.*: 95:2011-2022

Fleming, D.S., Koltjes, J.E., Fritz-Waters, E.R., Rothschild, M.F., Schmidt, C.J., Ashwell, C.M., Persia, M.E., Fulton, J., Reecy, J.M., S.J. Lamont, S.J. (accepted 10/4/2016) Single nucleotide variant discovery of highly inbred Leghorn and Fayoumi chicken breeds using pooled whole genome resequencing data reveals insights into phenotype differences. *BMC Genomics*

Fulton JE, McCarron AE, Lund AR, Pinegar K, Wolc A, Chazara O, Bed'Hom B, Berres ME, Miller MM. 2016. A high density SNP panel reveals extensive diversity, frequent recombination and multiple recombination hotspots within the chicken major histocompatibility complex B region between BG2 to CD1A1. *Genetics Selection Evolution*. 48:1.

Gallardo R. A., O. Aleuy, M. Pitesky, G. Senties-Cue, A. Abdelnabi, P. R. Woolcock, R. Hauck, H. Toro. Variability Assessment of California Infectious Bronchitis Virus Variants. *Avian Diseases*. 60:424-429, 2016.

Galvan,S.C., Carranc, A.G., Song J., and Félix RT., Epigenetics and animal virus infections. *Front. Genet.*, 04 March 2015 | doi: 10.3389/fgene.2015.00048.

Hamad S.K., Kim S., Wong E.A., Dalloul R.A. Comparative expression of host defense peptides in turkey poults. *Poultry Science*. *Submitted*.

Han, B. , Lian, L. , Li, X., Zhao, C., Qu, L., Liu, C., Song, J., Yang, N. Chicken Chicken gga-miR-130a targets HOXA3 and MDFIC and inhibits Marek's disease lymphoma cell proliferation and migration. *Molecular Biology Reports* · May 2016 Impact Factor: 2.02 · DOI: 10.1007/s11033-016-4002-2

Han, B. , Lian, L. , Li, X., Zhao, C., Qu, L., Liu, C., Song, J., Yang, N. Chicken gga-miR- 103-3p Targets CCNE1 and TFDP2 and Inhibits MDCC-MSB1 Cell Migration. *G3 (Bethesda)*. 2016 Mar 2. pii: g3.116.028498. doi: 10.1534/g3.116.028498.

Hauck R., R. A. Gallardo, P. R. Woolcock, H. L. Shivaprasad. A Coronavirus Associated with Runting Stunting Syndrome in Broiler Chickens. *Avian Diseases*. 60:528-534, 2016

Heidari M and Delekta P. Transcriptomic Analysis of Host Immune response in the skin of chickens infected with Marek's disease virus (Submitted to PLOS One, September 28th, 2016)

Heidari M, Fitzgerald S, and Zhang H. 2014. Marek's Disease Virus-Induced Transient Cecal Tonsil Atrophy. *Avian Dis*. 58:262-270.

Heidari M, Fitzgerald S, and Zhang H. 2015. Immune Responses in Cecal Tonsils of Marek's Disease Virus-Infected Chickens. *Avian. Dis*. 59:213-226.

Heidari M, Wang D, and Sun S. Innate immune responses to Marek's disease vaccines (Submitted to *Viral Immunology*, September 26th, 2016)

Heidari M, Wang D, Delekta P, and Sun S. 2016. Marek's disease virus immunosuppression alters host cellular responses and immune gene expression in the skin of infected chickens. *Vet. Immunol. Immunopath*. 180:21-28.

Heidari M, Wang D, Fitzgerald S, and Sun S. 2016. Severe necrotic dermatitis in the combs of line 63 chickens infected with Marek's disease virus. *Avian Path*. 45:582-582.

He, Y.H., Song, M.Y., Zhang, Y., Li, X.Z., Song, J.Z, Zhang, Y., Yu, Y. 2016, Whole-genome regulation analysis of histone H3 lysin 27 trimethylation in subclinical mastitis cows infected by *Staphylococcus aureus*. *BMC. Genomics* 2016 17:565

He Y., Ding, Y., Zhan, F., Zhang, H., Hu, G., Zhao, K., Han, B., Yang, N., Mao, L.,

Jin L, Gao D, Feng T, Rawson J, Angela Luo, A Jacob Tremblay J, Wedeken L, Ghazalli N, Lopez K, LeBon J, Walker S, Quijano J, Choe J, Li Z, Zerda R, Jou K, Miller MM, Sander M, Riggs AD, and Ku HT. R-Spondin 1 activates canonical Wnt signaling and induces proliferation of Neurogenin 3-expressing endocrine progenitors in adult pancreatic organoids. *Submitted*.

José A. C., He, Y., Luo, J., Menendez, K.R., Tablante, T. L., Zhao, K., Paulson, J.N., Li, B., and Song, J. 2015 Methylation Analysis in Chickens Immunized with Infectious Laryngotracheitis Vaccine. PLoS One 10.1371/journal.pone.0100476.

Kim S., Park M., Leon A.E., Adelman J.S., Hawley D.M., Dalloul R.A. Development and validation of a house finch interleukin-1 beta (HfIL-1 β) ELISA system. BMC Veterinary Research. *Submitted.*

Mitra, A., Luo, J., He, Y., Gu, Y., Zhang, H. Zhao, K., Cui, K. and *Song, J. 2015 Histone modifications induced by MDV infection at early cytolytic and latency phases. BMC Genomics 13: 557. DOI 10.1186/s12864-015-1492-6.

Lee, S.H., Dong, X., Lillehoj, H.S., Lamont, S.J., Suo, X., Kim, D.K., Lee, K.-W., and Hong, Y.H. 2016. Comparing the immune responses of two genetically B-complex disparate Fayoumi chicken lines to *Eimeria tenella*. Brit. Poultry Sci. DOI:10.1080/00071668.2016.1141172

Lian, L., Li, X., Zhao, C., Han, B., Qu, L., Song, J., Liu, C., and Yang, N. Chicken gga-miR-181a targets MYBL1 and shows an inhibitory effect on proliferation of Marek's disease virus-transformed lymphoid cell line Poultry Science. 2015 Nov;94(11):2616-21. doi: 10.3382/ps/pev289.

Li J, Li R, Wang Y, Hu X, Zhao Y, Li L, Feng C, Gu X, Liang F, Lamont S, Hu S, Zhou H*, Li N. 2015. Genome-wide DNA methylation variation in two genetically distinct chicken lines using MethylC-seq. BMC Genomics, 16 :851 (23 October 2015)

Ma, M., Lin, R., Carrillo, J., Bhutani, M., Pathak, A., Ren, H., Li, Y., Song, J., Mao, L. DNMT3B4-deletion contributes to aberrant DNA methylation patterns in lung tumorigenesis. EBioMedicine (2015), doi: 10.1016/j.ebiom.2015.09.002 6. 6. a.

Song, J., 2015. The conservation and signatures of lincRNAs in Marek's disease of chicken. Scientific Reports 5:15184 | DOI: 10.1038/srep15184

Miller MM and Taylor, Jr. RL. 2016. Brief Review of the Chicken Major Histocompatibility Complex – the Genes, their Distribution on Chromosome 16 and their Contributions to Disease Resistance. *Poultry Science* 95: 375-392.

Miller, M. M., and R. L. Taylor, Jr. 2016. Brief review of the chicken major histocompatibility complex – the genes, their distribution on chromosome 16 and their contribution to disease resistance. *Poult. Sci.* 95:375-392 10.3382/ps/pev379 (review)

Murillo, A.C., Chappell, M.A., Owen, J.P., Mullens, B.A. (2016) Northern Fowl Mite (*Ornithonyssus sylviarum*) Effects on Metabolism, Body Temperatures, Skin Condition, and Egg Production as a Function of Hen MHC Haplotype. *Poultry Science*. 95:2536–2546.

Nazmi A., R. Hauch, A. Davis, M. Hildebrand, L.B. Corbeil, R. A, Gallardo. Diatoms and Diatomaceous Earth as Novel Poultry Vaccine Adjuvants. *Poultry Science* (In Press)

Park M., Kim S., Leon A.E., Adelman J.S., Hawley D.M., Dalloul R.A. Identification and functional characterization of the house finch interleukin-1 β . *Developmental & Comparative Immunology*. *Under Review*.

Ritzi M.M., Abdelrahman W., van-Heerden K., Mohnl M., Barrett N.W., Dalloul R.A. 2016. Combination of probiotics and coccidiosis vaccine enhances protection against an *Eimeria* challenge. *Veterinary Research*. *Revised*.

Park M., Kim S., Fetterer R.H., Dalloul R.A. 2016. Functional characterization of the turkey macrophage migration inhibitory factor. *Developmental & Comparative Immunology* 61:198-207.

Pender C.M., Kim S., Potter T.D., Ritzi M.M., Young M., Dalloul R.A. 2016. In ovo supplementation of probiotics and its effects on performance and immune-related gene expression in broiler chicks. *Poultry Science*. *In press*, doi: 10.3382/ps/pew381.

Pender C.M., Kim S., Potter T.D., Ritzi M.M., Young M., Dalloul R.A. 2016. Effects of in ovo supplementation of probiotics on performance and immunocompetence of broiler chicks to an *Eimeria* challenge. *Beneficial Microbes*. *In press*, doi: 10.3920/BM2016.0080.

Potter T.D., Glover P., Evans N., Dalloul R.A. 2016. Differential ex vivo responses of primary leukocytes from turkey pedigree lines to *Salmonella* Heidelberg. *Poultry Science* 95:364-369.

Slawinska, A., Hsieh, J. C.-F., Schmidt, C., and Lamont, S.J. (accepted 10/4/2016) Heat stress and lipopolysaccharide stimulation of chicken HD11 cell line activates expression of distinct sets of genes. *PLOS ONE*

Sun, H., Bi, R., Liu, P., Nolan, L.K., and Lamont, S.J. 2016. Combined analysis of primary lymphoid tissues' transcriptomic response to extra-intestinal *Escherichia coli* (ExPEC) infection. *Dev. Comp. Immunol.* 57: 99-106

Sun, H., Liu, P., Nolan, L.K., and Lamont, S.J. 2016. Thymus transcriptome reveals novel pathways in response to avian pathogenic *Escherichia coli* infection. Poultry Sci. doi: 10.3382/ps/pew202

Sun, H., Liu, P., Nolan, L.K., and Lamont, S.J. 2015. Novel pathways revealed in bursa of Fabricius transcriptome in response to extraintestinal pathogenic *Escherichia coli* (ExPEC) infection. PLOS ONE 10(11): e0142570. doi:10.1371/journal.pone.0142570

Taylor, R. L., Jr., Z. Medarova, and W. E. Briles. 2016. Immune effects of chicken non-Mhc alloantigens. Poult. Sci. 95:447-457 doi:10.3382/ps/pev331 (review)

Taylor, R. L., Jr. 2015. The future of poultry science research: Challenges as opportunities. AMENA, Asociación Mexicana de Especialistas en Nutrición Animal, Puerta Vallarta, Mexico

Taylor, R. L., Jr. 2016. Letter to the Editor – A publication experiment. Poult. Sci. 95:227 doi:10.3382/ps/pev451

Taylor, R. L., Jr. 2016. Nunc Dimitis - W. Elwood Briles. Poult. Sci. 95:2477 doi:10.3382/ps/pew176

Troxell B, Petri N, Daron C, Pereira R, Mendoza M, Hassan HM, Koci MD. [Poultry body temperature contributes to invasion control through reduced expression of Salmonella pathogenicity island 1 genes in Salmonella enterica serovars Typhimurium and Enteritidis.](#) Appl Environ Microbiol. 2015 Dec;81(23):8192-201. doi: 10.1128/AEM.02622-15. Epub 2015 Sep 18. PubMed PMID: 26386070.

Tuggle, C., E. Giuffra, S. N. White, L. Clarke, H. Zhou, P. J. Ross, H. Acloque, J. M. Reecy, A. Archibald, R. R. Bellone, M. Boichard, A. Chamberlain, H. Cheng, R. P.M.A. Crooijmans, M. E. Delany, C. J. Finno, M. A. M. Groenen, B. Hayes, J. K. Lunney, J. L. Petersen, G. S. Plastow, C. J. Schmidt, J. Song, M. Watson. 2016. "GO-FAANG meeting: a Gathering On Functional Annotation of Animal Genomes" Animal Genetics DOI: 10.1111/age.12466

Tuggle CK, Giuffra E, White SN, Clarke L, Zhou H, Ross PJ, Acloque H, Reecy JM, Archibald A,

Van Goor, A., Slawinska, A., Schmidt, C.J., and Lamont, S.J. 2016. Distinct functional responses to stressors of bone marrow derived dendritic cells from diverse inbred chicken lines. Dev. Comp. Immunol. 63: 96-110

Warren, WC, Hillier LW, Tomlinson, C, Minx P, Kremitzki M, Graves T, Markovic C, Bouk N, Pruitt K, Thibaud-Nissen F, Schneider V, Mansour T, Brown CT, Zimin A, Hawken R, Pyrkosz AB, Morisson M, Fillon V, Vignal A, Chow W, Howe K, Fulton JE, Miller MM, Lovell P1, Mello C, Wirthlin M, Mason AS, Kuo R, Burt DW, Dodgson JB, Cheng HH. A new chicken genome assembly provides insight into avian genome structure. *Submitted*.

Weathers, B., S. L. Branton, R. Jacob, R. L. Taylor, Jr., E. D. Peebles, and G. T. Pharr. 2015. Expression of the ephrin receptor B2 in the embryonic chicken bursa of Fabricius. *Int. J. Poult. Sci.* 14:485-490

Wu G, Liu L, Qi Y, Sun Y, Yang N, Xu G, Zhou H, Li X. 2015. Splenic gene expression profiling in White Leghorn layer inoculated with the *Salmonella enterica* serovar Enteritidis. *Anim Genet.* doi: 10.1111/ age.12341.

Xu M, Fitzgerald S, Zhang H, Karcher DM, and Heidari M. 2012. Very virulent plus strains of MDV induce an acute form of transient paralysis in both susceptible and resistant chicken lines. *Viral Immunol.* 25:1-18.

Yan, Y., ; Yang, N., Cheng, H.H., Song, J. and Qu, L. 2015 Genome-wide identification of copy number variations between two chicken lines that differ in genetic resistance to Marek's disease. *BMC Genomics* 2015, 16:843 doi:10.1186/s12864-015-2080-5

Zar Mon, K. K., P. Saelao, M. M. Halstead, G. Chanthavixay, H.-C. Chang, L. Garas, E. A. Maga and H. Zhou. 2016. *Salmonella enterica* serovars Enteritidis infection alters the indigenous microbiota diversity in young layer chicks. *Front. Vet. Sci. - Veterinary Infectious Diseases.* 2:61. doi: 10.3389/fvets.2015.00061.

Zuo Q, Wang Y, Chen S, Lian C, Tang B, Wang F, Lu Z, Ji Y, Zhao R, Zhang W, Jin K, Song J, Zhang Y, Li B. Site-Directed Genome Knockout in Chicken Cell Line and Embryos can Use CRISPR/Cas Gene Editing Technology. *G3 (Bethesda).* 2016 Mar 26. pii: g3.116.028803. doi: 10.1534/g3.116.028803.

Abstracts

A. Abdelnabi, R. Hauck, L. Corbeil, R. A. Gallardo (2016). Immune Response Enhancement of Live Attenuated Vaccines Against Poultry Respiratory Viruses. 65th Western Poultry Disease Conference, Vancouver, CA.

Figueroa, R. Hauck, J. Saldias-Rodriguez, R. A. Gallardo (2016). Antiviral effect of hybrid quaternary ammonia - glutaraldehyde disinfectant on very virulent infectious bursal disease (vvIBDV) and avian influenza (LPAI) viruses. 65th Western Poultry Disease Conference, Vancouver, CA.

Ballou AL and Koci MD. Impact of Diet and Probiotic Supplementation on the Intestinal Microbiome. March 2016. 11th Annual Graduate Student Research Symposium. North Carolina State University. Raleigh, NC

.Ballou AL and Koci MD. Probiotic-directed changes in the avian microbiome regulate immune activity. September 2016. 6th ASM Conference on Beneficial Microbes. Seattle WA.

Ballou AL and Koci MD. Probiotic Supplementation Alters Gut and Systemic Immune Activity and Energy Consumption of Growing Chickens. June 2016. ASM Microbe 2016. Boston MA.

Byrne, K. A., and G. F. Erf. 2016. Tissue and blood leukocyte responses to intradermal injection of bacterial cell wall products in chickens. IPSF Atlanta, GA (1/25/2016). Poult. Sci. (E. Suppl. 1) 95: (IPSF, in press) – Oral presentation

Caitlin Harris, Miguel Barrios, Anna Kenyon, Robert Beckstead. (2015) Comparison of accuracy, cost, and starting cell counts of two methods for *Histomonas meleagridis in vitro* cell screen assays. Annual Meeting of Poultry Science Association.

Clarke L, Shivaprasad HL, Carnaccini S, Beckstead RB, and Rissi D. (2015) Characterization of *Histomonas meleagridis* in peafowl. International Poultry Scientific Forum

Ding, Y., He, YH., Carrillo, J., Zhang, HM., and *Song, J. Transcriptomic signatures of Marek's disease in immune organs. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015

Du, J.I., Li, M. Yuan, Z.F., Guo, M.C., Song, J.Z., Xie, X.Z., Chen, Y.L. 2016. A decision analysis model for KEGG pathway analysis BMC Bioinformatics, 2016 17:407 DOI: 10.1186/s12859-016-1285-1

Erf, G. F., and K. A. Byrne. 2016. Cutaneous injection of lipopolysaccharide or peptidoglycan initiates divergent in vivo innate immune responses in chickens. XIV Avian Immunology Research Group Meeting, Herrsching am Ammersee, Germany (9/7 -9/10, 2016) Abstract pg 25 – Oral presentation

Erf, G. F., K. A. Sullivan and HM Jang. 2015. Local and systemic immune system responses to intra-dermally administered graphene-based nanomaterials. Nanotechnology for Health Care Meeting; WRI, AR (12/2 -/12/4/2015) Abstract: pg 87 – Oral presentation.

Erf, G. F. Unique opportunities for animal testing using the avian model: the growing feather as a dermal test-site. National Center for Toxicology Research, FDA, Jefferson, AR, and broadcast to FDA, MD (11/9/2015) – Oral presentation

Erf, G. F., HM. Jang, K.A. Byrne, D.M. Falcon. 2016. Adjuvant effects on cellular and humoral adaptive immune responses to mouse IgG in chickens. XIV Avian Immunology Research Group Meeting, Herrsching am Ammersee, Germany (9/7 -9/10, 2016) Abstract pg 25 – Poster presentation

Erf, G. F., HM. Jang, O. Alaamri, K. A. Byrne, Daniel M. Falcon, and Z. Aguilar. 2015. Local and systemic adaptive immune responses to iron oxide nanoparticle-conjugated antigen. Nanotechnology for Health Care Meeting; WRI, AR (12/2 -/12/4/2015) Abstract pg 46 – Poster presentation.

Gallardo R. A., A.P. Da Silva, R. Hauck, H. Zhou. (2016). MHC and innate immune response as factors providing resistance to infectious bronchitis virus. American Veterinary Medical Association / American Association of Avian Pathologists (AVMA/AAAP) Annual Meeting, San Diego, TX.

Gallardo R. A., A.P. Da Silva, R. Hauck, H. Zhou. (2016). MHC and innate immune response as factors providing resistance to infectious bronchitis virus. American Veterinary Medical Association / American Association of Avian Pathologists (AVMA/AAAP) Annual Meeting, San Antonio, TX.

Gallardo R. A., R. Hauck, D. Rejmanek, B. Crossley. (2016). Highly pathogenic avian influenza viruses affecting the US poultry industry and their persistence. American Veterinary Medical Association / American Association of Avian Pathologists (AVMA/AAAP) Annual Meeting, San Diego, TX.

Han, B , He, YH. Ding, Y. Zhang, L. Yang, N. and *Song, J. 2015 Identification of LincRNAs and their modeling of knockdown systems associated with chicken Marek's disease. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015

Hamad S.K., Kim S., Wong E.A., Dalloul R.A. Comparative expression of avian beta defensins in turkey poult. International Poultry Scientific Forum, Atlanta, GA. January 25- 26, 2016.

Herrmann, M.S., Gallardo, R., Bunn, D.A., Kelly, T.R., Dekkers, J.C.M., Zhou, H., & Lamont, S.J. 2016. Harderian gland transcriptome responses to Newcastle disease virus in two inbred chicken lines. Avian Immunology Research Group Meeting (AIRG), September 7-10, 2016; Munich, Germany. Oral presentation.

Herrmann, M.S., Gallardo, R., Bunn, D.A., Zhou, H., & Lamont, S.J. 2016. Differential response of resistant and susceptible chicken lines to Newcastle Disease Virus in the trachea and lung. Plant and Animal Genome Conference (PAG), January 9-13, 2016; San Diego, CA. Poster, Lightning talk.

Herrmann, M.S., Gallardo, R., Bunn, D.A., Zhou, H., & Lamont, S.J. 2016. Searching for Newcastle disease virus resistance in the trachea transcriptome. Proc. National Breeders Roundtable, May 5-6, 2016; St. Louis, MO. Poster.

Herrmann, M. S. H. Zhou, R. Gallardo, D. Bunn, S. Lamont. 2016. Differential Response of Resistant and Susceptible Chicken Lines to Newcastle Disease Virus in the Trachea and Lung. Plant & Animal Genome XXIV, San Diego, CA.

Herrmann, M. S. H. Zhou, R. Gallardo, D. Bunn, S. Lamont. 2016. Searching for NDV resistance in the trachea transcriptome. 65th National Breeders Roundtable, St. Louis, MO.

Herrmann, M. S. H. Zhou, R. Gallardo, D. Bunn, T. Kelly, J. Dekkers, S. Lamont. 2016. Harderian Gland transcriptome responses to Newcastle disease virus in two inbred lines. XIVth Avian Immunology Research Group (AIRG) Meeting. Munich, Germany.

He, Y.H., Yang, N., Song, J, 2016. The Current and Future of Epigenetics in Poultry Health. 2016. The XXV World's Poultry Congress. (Invited Conference Paper)

He, YH, Zhang, HM. and Song, J. 2015 Differential transcriptome analysis of CD4+ T cells of chickens induced by Marek's disease virus challenge. International Plant & Animal Genome XXIII. San Diego, CA, USA. January 10-14, 2015

He, YH, Zhang, HM. Taylor, RL. and *Song, J. 2015 DNA methylation patterns associated with the resistance of Marek's disease. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015

Kenyon A, Barrios M, and Beckstead RB. (2015) *In vitro* cell screen assay of nickel (II) sulfate and cadmium sulfate showed growth inhibition of *Histomonas meleagridis*. International Poultry Scientific Forum

Kenyon AP, Kimminau EA, Klodnicki ME, Barrios MA, and Beckstead RB. (2014) Inclusion of zinc and copper inhibits *in vitro* growth of *Histomonas meleagridis*. Annual Meeting of the Poultry Science Association

Kern, C. P. J. Ross, P. Saelao, Y. Wang, M. Halstead, J. L. Chitwood, I. Korf, M. Delany, H. Cheng, J. F. Medrano, A. Van Eenennaam, C. K. Tuggle, C. W. Ernst. Zhou, H. 2016. Identification of Tissue-Specific Long Non-Coding RNAs in Three Livestock Species. Plant & Animal Genome XXIV, San Diego, CA.

Kern, C. P. Saelao, Y. Wang, M. Halstead, J. L. Chitwood, T. Kim, P. J. Ross, I. Korf, M. Delany, H. Cheng, Zhou, H. 2016. Identification of tissue-specific promoters in chickens. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT. M. Halstead, Kern, C. P. Saelao, Y. Wang, Zhou, H. P. J. Ross. 2016. Profiling of open chromatin in chicken tissues using ATAC-seq. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT.

Koci MD, Hassan HM, Chilcote A, Tucker C, Guin A, Rhew B, Bedell K, Palmer C, Hughes RA, Troxell B, Ali RA, Mendoza M, and Daron C. Innovation in Food Safety: Integrated Basic Research and STEM Education. November 2015. Stewards of the Future: Water for a Growing World: Innovation Fair. Raleigh, NC.

Koci MD, Orders A, Ali RA, Vann L, Boller B, Hernandez V, Watson D, Pratt E, and Jernigan C. Falcon Biomanufacturing. November 2015. Stewards of the Future: Water for a Growing World: Innovation Fair. Raleigh, NC.

Kristen Byrne. *Ph.D.* (POSC). Innate immunity in chickens: *in vivo* responses to different pathogen associated molecular patterns. (Su 2016, University of Arkansas, Erf mentor).

Lamont S.J., Van Goor A., Slawinska A., Hsieh J.C., Schmidt C.J. 2016. *In vitro* Insights into the Transcriptomic Response of Chicken Cells to Stressors. International Plant & Animal Genome Conference XXIV; January 9-13, 2016; San Diego, CA. Abstract W768.

Lyle, C. S.; K. A. Byrne, D. M. Falcon, R. L. Dienglewicz, HM. Jang, Z. P. Aguilar, and G. F. Erf. 2015. Application of avian *in vitro* and *in vivo* models to measure the immunostimulatory

activity of InP/ZnS quantum dot nanoparticles. Nanotechnology for Health Care Meeting; WRI, AR (12/2 -12/4/2015) Abstract pg 50 – Poster presentation

Marek's disease of chicken. In Proceedings of: International Conference of Plant and Animal Genome, January 8-13, 2016, San Diego, California.

Miguel Barrios, Anna Kenyon, Caitlin Harris, Robert Beckstead. (2015) A cell screen assay and turkey challenge to test different metals and other chemical compounds as alternative treatment strategies for Blackhead disease. American Association of Avian Pathologists.

Miguel Barrios, Anna Kenyon, Caitlin Harris, Robert Beckstead. (2015) Development of a dry medium selective for the isolation of *Histomonas meleagridis*. Annual Meeting of Poultry Science Association.

Miguel Barrios. Ph.D. (University of Georgia) Dissertation: A comprehensive approach to diagnose and prevent blackhead disease

Monson, M.S, Kaiser M.G. and Lamont, S.J. 2016. Investigating host resistance to avian pathogenic *Escherichia coli* using colonization levels in a chicken advanced intercross line. *in: Proc. Plant and Animal Genome XXI*. Jan 8-13, 2016. San Diego, Poster 0669.

Monson, M.S, Kaiser M.G. and Lamont, S.J. 2016. Variation in avian pathogenic *Escherichia coli* colonization levels in chickens. Iowa State University, Ames IA USA, Animal Science Leaflet R3102

Monson, M. S., Van Goor, A. G., Ashwell, C. M., Persia, M. E., Rothschild, M. F., Schmidt, C. J., and Lamont, S. J. Immunomodulatory effects of heat stress and lipopolysaccharide on the chicken bursal transcriptome. XIV Avian Immunology Research Group Meeting; September 7-10, 2016; Herrsching am Ammersee, DEU. Abstract 22

Monson, M. S., Van Goor, A. G., Ashwell, C. M., Persia, M. E., Rothschild, M. F., Schmidt, C. J., and Lamont, S. J. Transcriptome responses to heat stress and lipopolysaccharide in chicken primary immune tissues. 2016 "REAL Sustainability" Symposium; April 13-14, 2016; Ames, IA. Abstract 28

Munich, Germany. Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S. 2016. Genetic parameter estimation and genome-wide association study for NDV response in chickens. International Conference on Quantitative Genetics. June 2016; Madison, WI.

Park M., Kim S., Adelman J.S., Hawley D.M., Dalloul R.A. Identification and biological characterization of house finch interleukin-1 β . Annual meeting of the Poultry Science Association, New Orleans, LA. July 10-14, 2016.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S.J. 2016. Genetic parameter estimation and Genome Wide Association Study for NDV response in chickens. National Poultry Breeders' Roundtable; May 2016; St.Louis, MO.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S.J. 2016. Genetic parameter estimation and Genome Wide Association Study for NDV response in chickens. International Conference on Quantitative Genetics; June 2016; Madison, WI.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S. 2016. Genetic Parameter Estimation and Genome Wide Association Study for NDV Response in Chickens. Plant & Animal Genome XXIV, San Diego, CA.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S.J. 2016. Genetic parameter estimation and genome wide association study for NDV response in chickens. Plant and Animal Genome Conference; January 2016; San Diego, CA.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S. 2016. Genetic parameter estimation and genome-wide association study for NDV response in chickens. 65th National Breeders Roundtable, St. Louis, MO.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Kelly, T., Lamont, S.J. 2016. Genome Wide Association Study for NDV response in chickens. Avian Immunology Research Group Meeting; September 2016; Munich, Germany.

Rowland, K., Zhou, H., Gallardo, R., Bunn, D., Lamont, S. 2016. Genome Wide Association Study for NDV response in chickens. XIVth Avian Immunology Research Group (AIRG) Meeting.

Saelao, P., Y. Wang, A. Nazmi, D.A, Bunn, R. Gallardo, S.J. Lamont. Zhou, H. 2016. Genome-Wide Identification of Regions Associated with Heat-Tolerance and Newcastle Disease Virus Resistance in Chickens. Plant & Animal Genome XXIV, San Diego, CA.

Saelao, P., Y. Wang, K. Chanthavixay, D. Bunn, R. Gallardo, J. Fulton, S.J. Lamont. Zhou, H. 2016. Haplotype Analysis of Candidate Genes Resistance to Newcastle Disease Virus and Heat Stress in chickens. 105th Annual Poultry Science meeting, New Orland.

Smith S., White M.B., Omara I., Dalloul R.A. Differential expression of immunity genes in

chickens on various dietary treatments. Annual symposium of the Multicultural Academic Opportunities Program (MAOP) at Virginia Tech, Blacksburg, VA. July 29, 2016.

Sullivan, K. A., K. A. Byrne, HM. Jang and G. F. Erf. 2016. *In vivo* cellular responses to intradermal injection of phytohemagglutinin (PHA) in chickens. IPSF Atlanta, GA (1/25/2016) Poult. Sci. (E. Suppl. 1) 95: (IPSF, in press) - Award winning SCAD Poster presentation

Sullivan, K. A., K. A. Byrne, HM. Jang, and G. F. Erf. 2016. Phenotypic analysis and localization of leukocytes at the site of intradermal injection of phytohemagglutinin in chickens. Poultry Science Association Meeting, New Orleans, Louisiana (7/11-7/14/2016) Poult. Sci. (E. Suppl. 1) 95: (PSA, in press) –Oral presentation

Song, J., He, Y., Zhang, H., Yang, N. 2016. The conservation and signatures of lincRNAs in Marek's disease of chicken. In Proceedings of: International Conference of Plant and Animal Genome, January 8-13, 2016, San Diego, California.

Swaggerty, C. L., C. M. Ashwell, M. H. Kogut, and R. L. Taylor, Jr. 2016. Identification of Athens Canadian Random Bred sires with naturally high and low levels of key immune markers. Poult. Sci. 95(E-Suppl. 1):116

S. Waters, K. Chanthavixay, C. Kern, P. Saelao, Y. Wang, J. L. Chitwood, P. J. Ross, H. Zhou. 2016. Identifying Tissue Specific Long Noncoding RNAs in the Chicken Genome. Plant & Animal Genome XXIV, San Diego, CA.

Taylor, R. L., Jr., M. E. Berres, and J. E. Fulton. 2016. SNP identification of MHC haplotypes in Lakenvelder and Golden Sebright chickens. Poult. Sci. 95(E-Suppl. 1):100

T. H. Kim, C. Lopez, Y. Wang, H. Zhou. 2016. Inducible Overexpression and Targeted Genome Editing of Chicken IRF7 in DF-1 Cell Line. Plant & Animal Genome XXIV, San Diego, CA.

Teeling K, Ali RA, and Koci MD. Novel expression system to elucidate the translation strategy of avian astroviruses. April 2016. 1st annual CALS Honors Symposium. Raleigh, NC.

Teeling K, Ali RA, and Koci MD. Novel expression system to elucidate the translation strategy of avian astroviruses. April 2016. 25th Annual NC State Spring Undergraduate Research Symposium. Raleigh, NC.

White M.B., Lamb S., Winetzky D., Lecker K., Little D., Persia M.E., El-Kadi S.W., Dalloul R.A. Performance and response of direct-fed microbial (DFM)-fed broilers to a coccidiosis challenge. Annual meeting of the Poultry Science Association, New Orleans, LA. July 10- 14, 2016.

Xu, L.Y., He, Y.H. Liu, G, Song, J. Genome-wide assessment of inbred chicken lines indicates genomic segment in Marek's Disease resistance. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT.

Xu, L.Y., He, Y.H. Liu, G, Song, J. Genome-wide assessment of inbred chicken lines indicates genomic segment in Marek's Disease resistance. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT.

Y. Wang, Saelao, P., D,A, Bunn, R. Gallardo, S.J. Lamont. Zhou, H. 2016. Physiological Responses to Heat Stress in Three Chicken Lines. Plant & Animal Genome XXIV, San Diego, CA. Giuffra E. H. Zhou. 2016. Animals, Samples, and Assay Committee report. Plant & Animal Genome XXIV, San Diego, CA.

Y. Wang, Saelao, P., Kern, C. K. Chanthavixay, S. Jin, D. Bunn, R. Gallardo, S.J. Lamont. Zhou, H. 2016. Transcriptome Analysis of Host Response to Environmental Temperature Differences in Two Genetically Distinct Chicken Inbred Lines Challenged with Newcastle Disease Virus Infection. The Proceedings of XXV World's Poultry Congress, Beijing, China.

Zar Mon, K. K., P. Saelao, M. M. Halstead, G. Chanthavixay, H.-C. Chang, L. Garas, E. A. Maga and H. Zhou. 2016. Salmonella Enterica Serovars Enteritidis Infection Alters the Indigenous Microbiota Diversity in Young Layer Chicks. Plant & Animal Genome XXIV, San Diego, CA.

Zhang, H., Chang, S., Xie, Q., He, Y., Dong, K., Ernst, C.W., Song, J. 2016. Differential expression profiles of miRNAs induced by vaccination followed by Marek's disease virus challenge at cytolitic stage in chickens resistant or susceptible to Marek's disease. In Proceedings of:

Zhang, H., Xie, Q., Chang, S., He, Y., Ernst, C., Song, J. 2015. Vaccine induced differential expressions of miRNAs at cytolitic stage in chickens resistant or susceptible to Marek's disease. Meeting Abstract. Plant & Animal Genome XXIII, January 10-14, 2015.

Zhang, J., Kaiser, M.G., Herrmann, M.S., Gallardo, R.A., Bunn, D.A., Zhou, H., and Lamont, S.J. 2016. RNA-seq analysis reveals distinct splenic response of two chicken lines to Newcastle disease virus. 65th National Poultry Breeder Roundtable; St. Louis, MO.

Zhang J., M. G. Kaiser, M. S. Herrmann, R. A. Gallardo, D. A. Bunn, H. Zhou, S. J. Lamont. 2016. RNA-seq Analysis Reveals Distinct Splenic Response of Two Chicken Lines to Newcastle Disease

Virus. 65th National Breeders Roundtable, St. Louis, MO.

Zhou, H., D.A. Bunn, R. Gallardo, S. J. Lamont, J. C.M. Dekkers, A. Muhairwa, P. Msoffe, B. Kayang, A. Naazie, G. Aning, C. J. Schmidt. 2016. Feed the Future Innovation Lab for Genomics to Improve Poultry Improving Food Security in Africa By Enhancing Resistance to Newcastle Disease and Heat Stress in Chickens. The Proceedings of XXV World's Poultry Congress, Beijing, China.

Zhou, H. Giuffra E. 2016. Towards Common Standardized Procedures for the Functional Annotation of Animal Genomes (FAANG). Plant & Animal Genome XXIV, San Diego, CA.

Zhou, H. P. J. Ross, Kern, C. P. Saelao, Y. Wang, M. Halstead, J. L. Chitwood, I. Korf, M. Delany, H. Cheng, J. F. Medrano, A. Van Eenennaam, C. K. Tuggle, C. W. Ernst. 2016. Genome-wide Functional Annotation of Regulatory Elements in Livestock Species. Plant & Animal Genome XXIV, San Diego, CA. International Conference of Plant and Animal Genome, January 8-13, 2016, San Diego, California.

Zhou, H. P. J. Ross, Kern, C. P. Saelao, Y. Wang, M. Halstead, J. L. Chitwood, I. Korf, M. Delany, H. Cheng, J. F. Medrano, A. Van Eenennaam, C. K. Tuggle, C. W. Ernst. 2016. Update on Genome-wide Functional Annotation of Regulatory Elements in Livestock Species. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT