

Curriculum Vitae

Ying Wang

University of California, Davis
Department of Animal Science
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Education:

- (2007- 2011); **Doctor of Philosophy**
Host Department: Poultry Science
Texas A&M University, U.S.
Major Professor: Huaijun Zhou
- (2003-2006); **Doctor of Philosophy**
Host Department: Animal Breeding and Genetics
Northeast Agricultural University, Harbin, China
Major Professor: Hui Li
- (2000-2003); **Master of Science**
Host Department: Animal Breeding and Genetics
Northeast Agricultural University, Harbin, China
Major Professor: Hui Li
- (2000); **Bachelor of Science**
Major: Animal Science
Northeast Agricultural University, Harbin, China

Professional Appointments:

- (2012-Present); **Postdoctoral Scholar**
Department of Animal Science
University of California, Davis, CA

Research specialties: Functional genomics; Medical genetics – human and animal; Molecular, cellular, and developmental genetics; Host-pathogen interactions for both bacteria and viruses.

Training in: high-throughput sequencing, library preparations, advanced bioinformatics data analysis, cell culture, cell-infectivity experiments, functional genomics, and microarray design / labeling / hybridization whole proteome profiling by MASS spectrometry and other basic techniques for the bench work of molecular genetics.

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- (2007-2011); **Graduate Research Assistant**
Department of Poultry Science
Texas A&M University, College Station, Texas

Research specialties: Functional genomics; Medical genetics – human and animal; Molecular, cellular, and developmental genetics; Host-pathogen interactions.

Training in: high-throughput sequencing, advanced bioinformatics data analysis, cell culture, cell-infectivity experiments, functional genomics, and microarray design/labeling/hybridization whole proteome profiling by MASS spectrometry and other basic techniques for the bench work of molecular genetics.

- (2000-2006); **Graduate Research Assistant**
Department of Animal Breeding and Genetics
Northeast Agricultural University, Harbin, China

Research specialties: Molecular and functional genomics in chicken adipose metabolism.

Training in: Cell culture; gene silencing protocols; Nucleic acid isolation; RFLP gels, DNA sequencing, PCR, RT-PCR, real-time quantitative PCR, electrophoresis, blotting, radiological labeling, BAC library screening, cDNA library construction, SNP marker development, gene cloning and gene quantification, protein expression, SDS PAGE, polyclonal antibody production, western blotting and bioinformatics.

Professional Experience:

- (2012-present); **Postdoc** in Animal Science Department, University of California, Davis.
- (2013); **Guest lecturing** for the undergraduate course “Avian Development and Genetics” AVS 103 at University of California, Davis.
- (2011); **Guest lecturing** for the undergraduate course “Avian Genetics and Breeding” POSC 414 at Texas A&M University.
- (2009); **Teaching** the lab section of the undergraduate course “Avian Genetics and Breeding” POSC 414 at Texas A&M University.

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Research Experience:

1. Animal handling and participated animal trials

- ✧ Avian influenza virus challenging of chickens, sampling and preparation organisms.
- ✧ *Campylobacter* challenging of chickens, sampling and preparation organisms.
- ✧ *Salmonella T.* challenging of chicken, sampling and preparation organisms.
- ✧ Newcastle Disease virus challenging of chickens, sampling and preparation organisms
- ✧ Sampling and preparation organisms for knockout mice studies.

2. Functional Annotation of Animal Genome (Farm animal ENCODE project)

- ✧ Collecting samples from chickens, pigs and cattle
- ✧ Standardize core assays such as RNA-Seq, DNase-Seq, Chip-Seq and ATAC-Seq and experimental protocols
- ✧ Analyze data, coordinate and facilitate data sharing
- ✧ Provide high quality functional annotation of animal genomes

3. Salmonella Heidelberg mRNA sequencing

- ✧ Using Illumina mRNA sequencing technology.
- ✧ Prepare the bacterial mRNA libraries for sequencing.
- ✧ Compare the transcriptome profiles of SH with different treatments.
- ✧ Analyze the data by Agilent Genomic Workbench.

4. USAID Feed the Feed the Future Innovation Lab for Genomics to Improve Poultry

- ✧ Genetically enhance disease resistance to Newcastle Disease Virus infection and heat stress in poultry
- ✧ Using mRNA sequencing technology to identify genes associated with NDV resistance and heat stress in different chicken population.
- ✧ Using GWAS to identify genetic markers associated with NDV resistance and heat stress in different chicken population. .

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5. The role of chaperone-usher fimbriae in the colonization and persistence of *Salmonella Typhimurium* in chickens

- ✧ Inoculate the birds with wild type and Chaperone-usher fimbriae mutant ST.
- ✧ Using Illumina small RNA sequencing technology.
- ✧ Compare the miRNA expression profiles of infected and control birds.
- ✧ Identify chicken miRNAs associated with the ST colonization and persistence.

6. Chicken small RNA deep sequencing

- ✧ Using Illumina Solexa Deep Sequencing technology.
- ✧ Prepare the small RNA libraries for sequencing by using.
- ✧ Compare the microRNA expression profiles of AIV infected and non-infected birds.
- ✧ Confirm the results by microRNA northern blotting and realtime PCR.
- ✧ Identifying novel microRNAs

7. Microarray study on chicken immunogenetics responding to avian influenza virus (AIV) infection

- ✧ Identify the influence of AIV infection to chickens on the mRNA level.
- ✧ The gene expression profiling of infected and non-infected birds with AIV challenge using Agilent custom microarray.
- ✧ R language, SAS, JMP, DAVID and Genepix were used to analyze the data.

8. Chicken transcriptome analysis (RNA-Seq)

- ✧ Using Illumina mRNA sequencing technology.
- ✧ Prepare the mRNA libraries for sequencing.
- ✧ Compare the transcriptome profiles of AIV infected and non-infected birds and also between genetic lines.
- ✧ Analyze the data by Agilent Genomic Workbench.

9. Genomic studies on chicken *Mx* gene

- ✧ Identify polymorphisms of chicken *Mx* gene by sequencing; genotyping individual birds by using the PCR-RFLP protocol or sequencing the coding region.

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- ✧ Compare the difference of Mx mRNA expression between different Mx genotypes.
- ✧ DNAMAN, BIOEDIT, SAS and JMP were utilized to analyze the data.

10. MASS spectrometry proteomics analysis

- ✧ Prepare protein samples by the differential detergent fragmentation protocol.
- ✧ Identify differentially expressed proteins by statistical analysis.

11. AIV pathogenesis studies on chicken DF-1 cells

- ✧ Determine virus titers by plaque assays.
- ✧ Challenge chicken DF-1 cells by low pathogenic AIV with the optimized MOI.
- ✧ Characterize AIV replication in chicken DF-1 cells by plaque assays or real-time PCR.
- ✧ Test the basic expression level of chicken Mx gene and microRNA (miR-155) by real-time PCR.

12. miRNA microarray analysis

- ✧ Using Agilent custom designed miRNA microarray.
- ✧ Compare the miRNA expression profile of infected and non-infected birds with AIV infection.
- ✧ R language, SAS, JMP, DAVID and Genepix were used to analyze the data.

13. miRNA functional analysis

- ✧ Transfect gga-miR-155 mimics, inhibitor and scramble control to chicken DF-1 cells with or without AIV infection.
- ✧ Confirm the expression of miR-155 for the three treatment groups by real-time PCR.
- ✧ Determine the viral titers in the supernatant of AIV infected cells from the three treatments, in order to see if miR-155 affects the replication of AIV.
- ✧ Construct the lentiviral vectors expressing miR-155 or miR-155 target sequence. Infect chicken DF-1 cells by those two well packaged lentiviruses and select the positive cells by puromycin. Investigate the function of miR-155 by these two purified cell lines.

14. Chicken Mx gene functional analysis

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- ✧ Analyze the function of chicken Mx gene by RNAi.
- ✧ Design three target sequencings of siMx by online software.
- ✧ Construct the lentiviral vectors expressing the three siMxs. Infect chicken DF-1 cells by those three well packaged lentiviruses and select the positive cells by purmycin.
- ✧ Analyze the silencing efficiency of the three siMxs by GFP expression and Mx gene realtime PCR, find the most effective siMx lentiviral plasmid.
- ✧ Pick up the highest efficient siMx, infect DF-1 cells by this lentivirus, select the positive cells by purmycin and keep the Mx down-regulated cell line. Do follow up experiments to study the function of chicken Mx mRNA on AIV infection.

15. Full length cDNA library preparation

- ✧ Prepare the chicken full length cDNA library from different tissues to do the PacBio RS from Pacific Bioscience to sequence the full length cDNAs
- ✧ Analyze the data by CLC genomic workbench and get a better annotated chicken genome

16. Functional analysis of chicken PPAR gamma gene by RNAi

- ✧ Separate chicken primary adipocytes from adipose tissue.
- ✧ Over express PPAR gamma gene at mRNA level or down regulate its expression by transfection with siPPAR γ .
- ✧ Test the over-expression and down-regulation by real-time PCR.
- ✧ Measure the phenotypic traits of the primary adipocytes to determine the function of chicken PPAR gamma gene.

Publications:

CURRICULUM VITAE

Ying Wang

- ◆ Jinxiu Li, Rujiao Li, Qinghe Li, Ying Wang, Xiaoxiang Hu, Li Li, Chungang Feng, Yiqiang Zhao, Xiaorong Gu, Susan J.Lamont, Songnian Hu, Huaijun Zhou and Ning Li. Single base resolution DNA methylomes reveal significant genome-wide methylation difference between two genetically distinct chicken lines. *BMC genomics*, 2015, 16:851.
- ◆ Michael Schmid, Jacqueline Smith, David W Burt, Bronwen L Aken, Parker B Antin, Alan L. Archibald, Chris Ashwell, Perry J Blackshear, Clarissa Boschiero, C. Titus Brown, [...] Claus Steinlein, Liang Sun, Minoru Takata, Igor Ulitsky, Qing Wang, Ying Wang, Wesley C Warren, Jonathan M D Wood, David Wragg, Huaijun Zhou. Third Report on Chicken Genes and Chromosomes 2015. *Cytogenetic and Genome Research*. 145(2): 78-179.
- ◆ Gallardo RA, Carrasco-Medanic AER, Zhou H, Lye S, Wang Y, Woolcock PR and HoerrD FJ. Effects of challenge with very virulent infectious bursal disease virus reassortants in commercial chickens. *2014 Avian diseases* 58:579-586.
- ◆ Ying Wang, Blanca Lupiani, Sanjay M. Reddy, Susan J. Lamont, Huaijun Zhou. RNA-seq analysis revealed novel genes and signaling pathway associated with disease resistance to avian influenza virus infection in chickens. *2014 Poultry Science* 93(2): 485-93.
- ◆ Weiyu Zhang, Xianling Zhang, Huan Wang, Xin Guo, Honggui Li, Ying Wang, Xin Xu, Lyhun Tan, Mara T. Mashek, Chunxiang Zhang, Yingjie Chen, Douglas G. Mashek, Marc Foretz, Chuhong Zhu, Huaijun Zhou, Xu Liu, Benoit Viollet, Chaodong Wu, and Yuqing Huo. AMP-Activated Protein Kinase $\alpha 1$ Protects Against Diet-Induced Insulin Resistance and Obesity. *2012. Diabetes (IF: 7.80)*, 61:3114-3125.
- ◆ Ying Wang, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay Reddy, Ron Okimoto, Xianyao Li, Hsini Chiang, Huaijun Zhou. Associations of Chicken Mx Polymorphism with Antiviral Responses in Avian Influenza Virus Infected Embryos and Broilers. *2012. Poultry Science (IF: 1.52)*, 12; 91(12):3019-24.
- ◆ Ying Wang, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay M. Reddy, Benjamin Soibam, Preethi Gunaratne, Hsiao-ching Liu, Nares Trakooljul, Nancy Ing, Ron Okimoto, Huaijun Zhou. Integrated Analysis of microRNA Expression and mRNA Transcriptome in Lungs of Avian Influenza Virus Infected Broilers. *2012. BMC Genomics (IF: 4.40)*, Jun. 22; Volume 13(1), 278. (Highly access)
- ◆ Ying Wang, Noushin Ghaffari, Charles D Johnson, Ulisses M Braga-Neto, Hui Wang, Rui Chen and Huaijun Zhou. Evaluation of the coverage and depth of transcriptome by RNA-Seq in chickens. *BMC Bioinformatics (IF: 3.03)*, 2011. Volume 12 Suppl 10,

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doi:10.1186/1471-2105-12-S10-S5. (Highly access)

- ◆ **Wang Y**, Brahmakshatriya V, Zhu H, Lupiani B, Reddy SM, Yoon BJ, Gunaratne PH, Kim JH, Chen R, Wang J, Zhou H. Identification of differentially expressed miRNAs in chicken lung and trachea with avian influenza virus infection by a deep sequencing approach. 2009. BMC Genomics (IF: 4.40). Nov 5; 10: 512. (Highly access)
- ◆ Li X., C. L. Swaggerty, M. H. Kogut, H. Chiang, **Wang Y.**, K. J. Genovese, H. He, H. Zhou. Cecal transcriptome analysis of colonized and non-colonized chickens within two genetic lines that differ in cecal colonization by *Campylobacter jejuni*. Animal Genetics (IF: 2.58). 2011. V42 (5): 491-500.
- ◆ Li X, Swaggerty CL, Kogut MH, Chiang HI, **Wang Y**, Genovese KJ, He H, McCarthy FM, Burgess SC, Pevzner IY, Zhou H. Systemic response to *Campylobacter jejuni* infection by profiling gene transcription in the spleens of two genetic lines of chickens. Immunogenetics (IF: 2.942). 2011 Jul 7.
- ◆ Li X., C. L. Swaggerty, M. H. Kogut, H. Chiang, **Wang Y.**, K. J. Genovese, H. He, H. Zhou. Gene expression profiling of the local cecal response of genetic chicken lines that differ in their susceptibility to *Campylobacter jejuni* colonization. 2010. PLoS ONE (IF: 3.73) 5(7): e11827. doi:10.1371/journal.pone.0011827.
- ◆ Huo Y, Guo X, Li H, Wang H, Zhang W, **Wang Y**, Zhou H, Gao Z, Telang S, Chesney J, Chen YE, Ye J, Chapkin RS, Wu C. Disruption of inducible 6-phosphofructo-2-kinase ameliorates diet-induced adiposity but exacerbates systemic insulin resistance and adipose tissue inflammatory response. Journal of Biol. Chem. (IF: 5.33) Feb 5; 285(6):3713-21. Epub 2009 Nov 30.
- ◆ Sarson AJ, **Wang Y**, Kang Z, Dowd SE, Lu Y, Yu H, Han Y, Zhou H, Gong J. Gene expression profiling within the spleen of *Clostridium perfringens*-challenged broilers fed antibiotic-medicated and non-medicated diets. BMC Genomics (IF: 3.77). 2009 Jun 7; 10: 260.
- ◆ Li X, Swaggerty CL, Kogut MH, Chiang H, **Wang Y**, Genovese KJ, He H, Stern NJ, Pevzner IY, Zhou H. The paternal effect of *Campylobacter jejuni* colonization in ceca in broilers. Poult Sci (IF: 1.52). 2008 Sep; 87(9):1742-7.
- ◆ **Ying Wang**, Hui Li, Qigui Wang, Yanshuang Mu, Yuxiang Wang, Ning Ding. PPAR γ : a key regulator of adipocyte differentiation in chickens. Poultry Science (IF: 1.52), 2008 Feb; 87(2): 226-232.

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- ◆ **Ying Wang**, Hui Li, YuanDan Zhang, ZhiLiang Gu, ZhiHui Li, QiGui Wang. Analysis on Association of a SNP in the Chicken OBR Gene with Growth and Body Composition Traits. *Australian Journal of Animal Science* (IF: 0.862), 2006 Dec. 19(12): 1706-1710.
- ◆ **Wang Ying**, Li Hui, Gu Zhi-Liang, Zhao Jian-Guo, Wang Qi-Gui, Wang Yu-Xiang. Correlation Analysis Between Single Nucleotide Polymorphism of the Leptin Receptor Intron 8 and Fatness Traits in Chickens. *Acta Genetica Sinica*, 2004 Mar; 31(3): 265-9.

Published Abstracts and presentations:

- ◆ **Ying Wang**, Perot Saelao, Rodrigo Gallardo, David A. Bunn, Susan J. Lamont, Huaijun Zhou. Physiological Responses to Heat Stress in Three Chicken Lines. *Plant & Animal Genome XXV*. 2016 (Oral presentation).
- ◆ Huaijun Zhou, Pablo J. Ross, Colin Kern, Perot Saelao, **Ying Wang**, Michelle M. Halstead, James L. Chitwood, Taehyun Kim. Genome-wide Functional Annotation of Regulatory Elements in Livestock Species. *Plant & Animal Genome XXV*. 2016 (Poster)
- ◆ Susan M Waters, Kelly Chanthavixay, Colin Kern, Perot Saelao, **Ying Wang**, James L Chitwood, Pablo J. Ross, Huaijun Zhou. Identifying Tissue Specific Long Noncoding RNAs in the Chicken Genome. *Plant & Animal Genome XXV*. 2016 (Poster)
- ◆ Kelly Chanthavixay, Perot Saelao, **Ying Wang**, Anthony Medvedev, Vivian Yu, Rodrigo Gallardo, David A. Bunn, Susan J. Lamont, Huaijun Zhou. Effect of Sex on Newcastle Disease Virus Titer after Infection in Chickens. *Plant & Animal Genome XXV*. 2016 (Poster)
- ◆ Perot Saelao, **Ying Wang**, Kelly Chanthavixay, Ali Nazmi, Rodrigo Gallardo, David A Bunn, Susan J. Lamont, Huaijun Zhou. Genome-Wide Identification of Regions Associated with Heat-Tolerance and Newcastle Disease Virus Resistance in Chickens. *Plant & Animal Genome XXV*. 2016 (Poster)
- ◆ Tae Hyun Kim, Catherine Lopez, **Ying Wang**, Huaijun Zhou. Inducible Overexpression and Targeted Genome Editing of Chicken IRF7 in DF-1 Cell Line. *Plant & Animal Genome XXV*. 2016 (Poster)
- ◆ **Ying Wang**, Perot Saelao, Rodrigo Gallardo, David A. Bunn, Susan J. Lamont, Huaijun Zhou. Transcriptional Analysis of Resistance to Newcastle Disease Virus Infection in Two Genetically Distinct Inbred Chicken Line. *Plant & Animal Genome XXIII*. 2015 (Poster).

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- ◆ **Ying Wang**, Perot Saelao, Zhenhua Zhao, Blanca Lupiani, Sanjay M. Reddy, Susan J. Lamont, Huaijun Zhou. Allele Specific Expression in Chicken Lungs Following Avian Influenza Virus Infection Detected Using RNA-Seq. The 34th international society of animal genetics conference. 2014 (Poster and oral presentation)
- ◆ **Ying Wang**, Neil Heufner, Blanca Lupiani, Sanjay M. Reddy, Susan J. Lamont, Huaijun Zhou. Systems Biology Analysis of Innate Resistance to Avian Influenza Virus Infection in Tracheae of Two Genetically Distinct Chicken Inbred Lines. International Symposium on Vaccines Against Antigenically Variable Viruses. 2014 (Poster)
- ◆ **Ying Wang**, Neil Heufner, Blanca Lupiani, Sanjay Reddy, Susan J. Lamont, Huaijun Zhou. Systems Biology Analysis of Innate Resistance to Avian Influenza Virus Infection in Two Genetically Distinct Chicken Inbred Lines. Plant & Animal Genome XXII. 2014 (Poster).
- ◆ **Ying Wang**, Blanca Lupiani, Sanjay M. Reddy, Hui Wang, Rui Chen, Susan J. Lamont, Huaijun Zhou. Lung Transcriptome following Avian Influenza Virus Infection in Two Genetically Distinct Chicken Inbred Lines using RNA-seq. 8th Annual UC Davis Retreat on Host Microbe Interaction, Tahoe city, CA. 2013 (Poster).
- ◆ **Ying Wang**, Jinxiu Li, Qinghe Li, Rujiao Li, Xiaoxiang Hu, Ning Li, Songnian Hu, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay Reddy, Susan J. Lamont, Huaijun Zhou. Effects of Avian Influenza Virus infection on the Transcriptome and the DNA Methylome in Two Genetically Distinct Chicken Lines using Next Generation Sequencing. Plant & Animal Genome XXI. 2013 (Poster).
- ◆ Jinxiu Li, Qinghe Li, **Ying Wang**, Rujiao Li, Xiaoxiang Hu, Huaijun Zhou, Songnian Hu and NingLi. Single Base Resolution DNA Methylome Between Avian Influenza Virus Resistant and Susceptible Chickens. Plant & Animal Genome XXI. 2013 (Poster).
- ◆ **Y. Wang**, Y. Shi, Y. Song, Y. Zhang, J. Yuan, S. Y. Dai, V. Brahmakshatriya, B. Lupiani, S. Reddy, S. Lamont and H. Zhou. High-throughput proteomic analysis in chicken lung with avian influenza virus infection by mass spectrometry. 100th Poultry Science Annual Meeting, St. Louis, MO, 2011 (Oral presentation).
- ◆ K. Stringfellow, **Y. Wang**, H. Zhou, Y. Farnell, D. Caldwell, J. Lee, S. Anderson, M. Mohnl, R. Beltran, G. Schatzmayr, S. Fit-Coy, D. Broussard, and M. Farnell. Effect of probiotic administration on avian beta-defensin expression in coccidiosis vaccinated broilers. 100th Poultry Science Annual Meeting, St. Louis, MO, 2011(Oral presentation).
- ◆ A. Nazmi, J. Zhang, X. Li, C. Swaggerty, M. Kogut, H. Chiang, **Y. Wang**, K. Genovrese,

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- H. He, V. Dirita, I. Pevzner and H. Zhou. Gene expression profiles of ceca in different broiler lines infected with wild-type and mutant *Campylobacter jejuni*. 100th Poultry Science Annual Meeting, St. Louis, MO, 2011(Oral presentation).
- ◆ **Y. Wang**, N. Ghaffari, C.D. Johnsons, U.M. Braga-Neto, H. Wang, R. Chen, H. Zhou. Evaluation of coverage and depth of transcriptome by RNA-Seq in chickens (Oral presentation). MCBIOS 2011 Conference. College Station, TX, 2011 (Oral presentation).
 - ◆ **Ying Wang**, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay M. Reddy, Susan J. Lamont, Huaijun Zhou. Identification of Differentially Expressed microRNAs Associated with Avian Influenza Virus Infection in Two Genetically Distinct Chicken Lines. Plant & Animal Genome XIX. 2011 (Poster).
 - ◆ J. Abernathy, X. Li, **Y. Wang**, and H. Zhou. Assessment of gene regulation of microRNA-155 in the chicken macrophage during *Salmonella Typhimurium* infection. Plant & Animal Genome XIX. 2011(Poster).
 - ◆ **Ying Wang**, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay Reddy, Huifeng Zhu, Preethi Gunaratne, Hsiao-Ching Liu, Ron Okimoto, Huaijun Zhou. Integrated Analysis of microRNAs Expressions and mRNA Transcription in Avian Influenza Virus Infected Chicken Lung. Plant & Animal Genome XVIII. 2010. p528 (Poster)
 - ◆ **Ying Wang**, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay Reddy, Ron Okimoto, Xianyao Li, Hsini Chiang, Huaijun Zhou. Associations of Chicken Mx Polymorphism with Antiviral Responses in Avian Influenza Virus Infected Embryo and Broilers. 98th Poultry Science Annual Meeting, Raleigh, NC. 2009 (Oral presentation..
 - ◆ Hilley J., X. Li, C. L. Swaggerty, M. H. Kogut, H. Chiang, **Y. Wang**, K. Genovese, H. He , V. J. Dirita, I. Pevzner, H. Zhou. 2009 Innate immune response to *Campylobacter jejuni* infection in the broiler bursa. 98th Annual Poultry Science meeting, Raleigh, NC. 2009. (Oral presentation).
 - ◆ Li X., C. L. Swaggerty, M. H. Kogut, H. Chiang, **Y. Wang**, K. Genovese, H. He, I. Pevzner, H. Zhou. 2009. Gene expression profiling difference between resistant and susceptible broilers responding to *Campylobacter jejuni* infection. 98th Annual Poultry Science meeting, Raleigh, NC, 2009 (Oral presentation).
 - ◆ **Ying Wang**, Vinayak Brahmakshatriya, Blanca Lupiani, Sanjay Reddy, Byung-Jun Yoon, Huifeng Zhu, Preethi Gunaratne, Rui Chen, Huaijun Zhou. Identification of Differentially Expressed microRNAs in Chicken Lung and Trachea with Avian Influenza Virus Infection

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by Solexa Sequencer Plant & Animal Genome XVII, San Diego, CA.(Poster)

- ◆ Li X., C. L. Swaggerty, M. H. Kogut, H. Chiang, **Y. Wang**, K. J. Genovese, H. He, I. Y. Pevzner, H. Zhou. 2009. Genome-wide gene expression profiling of chicken spleen responding to *Campylobacter jejuni* infection in broilers. Proc. Plant & Animal Genome XVII, San Diego, CA.(Poster)
- ◆ **Ying Wang**, Joshua Gong, Yanming Han, Xianyao Li, Hsini Chiang, Zhumei Kang, Hai Yu, Huaijun Zhou. Gene expression profiling of *Clostridium perfringens* infection in broilers on medicated and non-medicated diets using a chicken 44K agilent microarray. *Plant & Animal Genome XVI*. 2008. (Poster)
- ◆ X.Y. Li, C. Swaggerty, M. Kogut, H.I. Chiang, **Y. Wang**, K. Genovese, H. He, and H. Zhou. 2008. Global gene expression profile of chicken cecal tonsil in response to *Campylobacter jejuni* challenge in broiler lines. Proc. Plant & Animal Genome XVI, San Diego, CA. (Poster)
- ◆ A.J. Sarson, **Y. Wang**, Z. Kang, H. Yu, Y. Han, H. Zhou, S. Sharif, and J. Gong. 2008. Gene expression profiling within the spleen of *Clostridium perfringens*-infected broilers fed antibiotic-medicated and non-medicated diets. *Poultry Science* 87: suppl. 1: 56 (Poster).

Competitive Funding:

- ◆ (2014) The FAANG travel award to attend the 26th Annual Plant and Animal Genome Conference. San Diego, CA.
- ◆ (2014) The travel award to attend the 34th international society of animal genetics conference, Xi'an, China.
- ◆ (2014) The travel award to attend International Symposium on Vaccines Against Antigenically Variable Viruses, Ames, IA
- ◆ (2014) The USDA travel award to attend the 22nd Annual Plant and Animal Genome Conference. San Diego, CA.
- ◆ (2013) The CBD travel award to attend the The 24th CDB Meeting "Genomics and Epigenomics with Deep Sequencing", KOBE, Japan.

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- ◆ (2013) The USDA travel award to attend the 21th Annual Plant and Animal Genome Conference. San Diego, CA.
- ◆ (2013) The Animal Epigenetic travel award to attend the 21th Annual Plant and Animal Genome Conference. San Diego, CA
- ◆ (2011) **Texas A&M University College of Agriculture and life sciences Tom Slick Graduate Research fellowship Award. College Station, TX.**
- ◆ (2011) Plant and Animal Genome student Neal A. Jorgenson Travel Grant Award to attend the 19th Annual Plant and Animal Genome Conference. San Diego, CA.
- ◆ (2011) Texas A&M University College of Agriculture and life sciences Lechner Travel Grant to attend the 100th Poultry Science Annual Meeting. St. Louis, MO.
- ◆ (2008) Texas A&M University graduate student office Research and Presentation Grant to attend the 16th Annual Plant and Animal Genome Conference. San Diego, CA.

Conferences and Workshops in Attendance:

- (Jan 2016) 24th Annual Plant and Animal Genome Conference. San Diego, CA.
- (May 2015) 5rd Annual Bay Area Symposium on Viruses. Berkley, CA
- (Mar 2015) XVIIth Bay Area Microbial Pathogenesis Symposium, San Francisco, CA
- (Jan 2015) 23rd Annual Plant and Animal Genome Conference. San Diego, CA.
- (July 2014) The 34th international society of animal genetics conference, Xi'an, China.
- (Jun 2014) International Symposium on Vaccines Against Antigenically Variable Viruses, Ames, IA.
- (Jan 2014) 22nd Annual Plant and Animal Genome Conference. San Diego, CA.
- (Nov. 2013) 8th Annual UC Davis Retreat on Host Microbe Interaction, Tahoe city, CA.
- (Mar 2013) XVIth Bay Area Microbial Pathogenesis Symposium, San Francisco, CA
- (Jan 2013) 21th Annual Plant and Animal Genome Conference. San Diego, CA.
- (Nov. 2012) 7th Annual UC Davis Retreat on Host Microbe Interaction, Tahoe city, CA.
- (Apr 2012) 3rd Annual Bay Area Symposium on Viruses. Berkley, CA
- (Mar 2012) XVth Bay Area Microbial Pathogenesis Symposium, San Francisco, CA
- (Jul 2011) 100th Poultry Science Annual Meeting. St. Louis, MO.
- (May 2011) “Linkage Disequilibrium and Genomic Selection” Course at Texas A&M University presented by Dr. Ben Hayes, College Station, TX.
- (Jan 2011) 19th Annual Plant and Animal Genome Conference. San Diego, CA.
- (Nov 2010) Illumina next-generation sequencer – User’s Group meeting. Houston, TX.

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- (Nov 2010) The Laboratory for Genome Bioinformatics: Workshops in Computational Genomics. Texas A&M University, College Station, TX.
- (May 2010) TAMU GO workshop, Texas A&M University, College Station, TX.
- (Jan 2010) 18th Annual Plant and Animal Genome Conference. San Diego, CA.
- (Jul 2009) 98th Poultry Science Annual Meeting. Raleigh, NC.
- (Jun 2009) Bioinformatics series workshops, Texas A&M University, College Station, TX.
- (Jan 2009) 17th Annual Plant and Animal Genome Conference. San Diego, CA.
- (Jan 2008) 16th Annual Plant and Animal Genome Conference. San Diego, CA.
- (Jul 2007) 96th Poultry Science Annual Meeting. San Antonio, TX.

Professional Memberships:

- Poultry Science Association
- International Animal Genome Society

References:

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