

CURRICULUM VITAE

Personal Information			
Name	Shijun Li	Gender	male
Position Title		Professor	
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Research Interest			
<p>1. Mainly engaging in the research of the regulation genes of important production and quality traits and genome selection in poultry For a long time.</p> <p>2. Taking the lead in selecting hen sperm storage ability as an important new breeding trait in China's independent chicken breeds, Preliminarily found out many important genetic parameters such as heritability repeat rate of hen sperm storage ability, studied its partial regulatory mechanism, and explored some molecular markers for breeding this trait.</p> <p>3. Researching the recombination of heat tolerance and egg high yield in chicken.</p> <p>4. Researching the regulation of tibial color transformation in chickens.</p>			
Education & Working Experience			
<p>2010/12 to present: as a professor in Animal Sciences college of Huazhong Agricultural University College.</p> <p>2007/09-2010/12: Doctor's degree in Agronomy from Huazhong Agricultural University</p> <p>2000/09-2004.07: Master's degree in Agronomy from Huazhong Agricultural University</p> <p>1989/09-1993.07: Bachelor's degree in Agronomy from Huazhong Agricultural University</p>			
Publications			
<p>1. Yang L, Yuan F, Rong L, Cai J, Yang S, Jia Z, Li S. Transcriptomic and Metabolomic Profile Analysis of Muscles Reveals Pathways and Biomarkers Involved in Flavor Differences between Caged and Cage-Free Chickens. <i>Foods</i>. 2022; 11(18):2890. https://doi.org/10.3390/foods11182890.</p> <p>2. Wang L, Yang L, Yang S, Jia Z, Cai J, Rong L, Wu X, Fan L, Gong Y, Li S. Identification of genes associated with feather color in Liancheng white duck using F_{ST} analysis. <i>Anim Genet</i>. 2022 Aug;53(4):518-521. doi: 10.1111/age.13201. Epub 2022 Jun 7. PMID: 35670225.</p> <p>3. F. Jiang, R. Lin, C. Xiao, T. Xie, Y. Jiang, J. Chen, P. Ni, W. K. Sung, J. Han, X. Du & S. Li. Analysis of whole-genome re-sequencing data of ducks reveals a diverse demographic history and extensive gene flow between Southeast/South Asian and Chinese populations. <i>Genet Sel Evol</i> 53, 35, doi:10.1186/s12711-021-00627-0 (2021).</p> <p>4. Elokil AA, Abouzaid M, Magdy M, Xiao T, Liu H, Xu R, Li S. Testicular transcriptome analysis under the dietary inclusion of l-carnitine reveals potential key genes associated with oxidative defense and the semen quality factor in aging roosters. <i>Domest Anim Endocrinol</i>.</p>			



- 2021 Jan;74:106573. doi: 10.1016/j.domaniend.2020.106573. Epub 2020 Sep 19. PMID: 33091752.
5. Elokil AA, Abouzaid M, Magdy M, Xiao T, Liu H, Xu R, Li S. Testicular transcriptome analysis under the dietary inclusion of l-carnitine reveals potential key genes associated with oxidative defense and the semen quality factor in aging roosters. *Domest Anim Endocrinol.* 2021 Jan;74:106573. doi: 10.1016/j.domaniend.2020.106573. Epub 2020 Sep 19. PMID: 33091752.
6. Adeyinka Abiola Adetula, Xiaolei Liu, Liubin Yang, Chengchi Fang, Shijun Li 2020 RAI14 in the blood feather regulates chicken pigmentation *Archives Animal Breeding*, 63(2) 10.5194/aab-63-231-2020
7. Azmal SA, Nan J, Bhuiyan AA, Elokil AA, Ali MI, Adetula AA, Ma S, Sun C, Han Z, Yuan J, Li S. A genome-wide single nucleotide polymorphism scan reveals genetic markers associated with fertility rate in Chinese Jing Hong chicken. *Poult Sci.* 2020 Jun;99(6):2873-2887. doi: 10.1016/j.psj.2019.12.068. Epub 2020 Apr 10. PMID: 32475420; PMCID: PMC7597651.
8. Liubin Yang, Xinting Zheng, Changhuan Mo, Shaomei Li, Zhiwei Liu, Ge Yang, Qianqian Zhao, Shijun Li, Chunyan Mou. Transcriptome analysis and identification of genes associated with chicken sperm storage duration. *Poult Sci.* 2020;99(2):1199 - 1208. doi:10.1016/j.psj.2019.10.021
9. *Poult Sci.* 2020 Feb;99(2):1199-1208. doi: 10.1016/j.psj.2019.10.021. Epub 2019 Dec 13.
10. Elokil, A.A.; Abouelezz, K.F.; Ahmad, H.I.; Pan, Y.; Li, S. Investigation of the Impacts of Antibiotic Exposure on the Diversity of the Gut Microbiota in Chicks. *Animals* 2020, 10, 896.
11. Yang L, Mo C, Adetula AA, Elokil AA, Akbar Bhuiyan A, Huang T, Li S. Bilateral apex pubis distance: a novel index for follicular development and egg laying status in domestic hens (*Gallus gallus domesticus*). *Br Poult Sci.* 2020 Apr;61(2):195-199. doi: 10.1080/00071668.2019.1697429. Epub 2020 Mar 18. PMID: 31774308.
12. Elokil AA, Abouelezz K, Adetula AA, Ahmad HI, Mo C, Sun C, Li S. Investigation of the impact of gut microbiotas on fertility of stored sperm by types of hens. *Poult Sci.* 2020 Feb;99(2):1174-1184. doi: 10.1016/j.psj.2019.10.048. Epub 2019 Dec 12. PMID: 32036968; PMCID: PMC7587675. 2020 Feb;99(2):1174-1184. doi: 10.1016/j.psj.2019.10.048. Epub 2019 Dec 12.
13. A. A. Elokil, M. Magdy, S. Melak, H. Ishfaq, A. Bhuiyan L. Cui, M. Jamil, S. Zhao and S. Li. Faecal microbiome sequences in relation to the egg-laying performance of hens using amplicon-based metagenomic association analysis. 2019 ANIMAL by Cambridge University Press 1-10; doi: 10.1017/s1751731119002428. *Animal* 14 (4), 706-715 Apr 2020
14. Gu L, Jing R, Gong Y, Yu M, Elokil A, Li S. Gene co-expression network analysis reveals key potential gene modules in utero-vaginal junction associated with duration of fertility trait of breeder hens. *Sci Rep.* 2019;9(1):13860. Published 2019 Sep 25. doi:10.1038/s41598-019-50148-6
15. Adetula AA, Azmal SA, Sun C, Elokil A, Li S. 2019. Association of single nucleotide polymorphism at long non-coding RNA 8138.1 with duration of fertility in egg-laying hens. *PeerJ* 7:e7282. <https://doi.org/10.7717/peerj.7282>
16. Yang L, Mo C, Shen W, Du X, Akbar Bhuiyan A, Li L, Li N, Gong Y, Li S. The recessive C locus in the MITF gene plays a key regulatory role in the plumage colour pattern of duck (*Anas platyrhynchos*). *Br Poult Sci.* 2019 Apr;60(2):105-108. doi: 10.1080/00071668.2018.1564237.

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17. Azmal SA, Bhuiyan AA, Omar AI, Ma S, Sun C, Han Z, Zhang M, Zhao S, Li S. Novel Polymorphisms in RAPGEF6 Gene Associated with Egg-Laying Rate in Chinese Jing Hong Chicken using Genome-Wide SNP Scan. *Genes (Basel)*. 2019 May 20;10(5):384. doi: 10.3390/genes10050384. PMID: 31137587; PMCID: PMC6562510.

18. Elokil AA, Bhuiyan AA, Liu HZ, Hussein MN, Ahmed HI, Azmal SA, Yang L, Li S. The capability of L-carnitine-mediated antioxidant on cock during aging: evidence for the improved semen quality and enhanced testicular expressions of GnRH1, GnRHR, and melatonin receptors MT 1/2. *Poult Sci*. 2019 Sep 1;98(9):4172-4181. doi: 10.3382/ps/pez201. PMID: 31001634.

19. Adetula AA, Gu L, Nwafor CC, Du X, Zhao S, Li S. Transcriptome sequencing reveals key potential long non-coding RNAs related to duration of fertility trait in the uterovaginal junction of egg-laying hens. *Sci Rep*. 2018 Sep 4;8(1):13185. doi: 10.1038/s41598-018-31301-z. PMID: 30181614; PMCID: PMC6123486.

20. Ma Y, Gu L, Yang L, Sun C, Xie S, Fang C, Gong Y, Li S. Identifying artificial selection signals in the chicken genome. *PLoS One*. 2018 Apr 26;13(4):e0196215. doi: 10.1371/journal.pone.0196215. PMID: 29698423; PMCID: PMC5919632.

21. Yang L, Du X, Wei S, Gu L, Li N, Gong Y, Li S. Genome-wide association analysis identifies potential regulatory genes for eumelanin pigmentation in chicken plumage. *Anim Genet*. 2017 Oct;48(5):611-614. doi: 10.1111/age.12573. Epub 2017 Jun 22. PMID: 28639704.

22. Gu L, Sun C, Gong Y, Yu M, Li S. Novel copy number variation of the TGFβ3 gene is associated with TGFβ3 gene expression and duration of fertility traits in hens. *PLoS One*. 2017 Mar 16;12(3):e0173696. doi: 10.1371/journal.pone.0173696. PMID: 28301526; PMCID: PMC5354388.

23. Lin R, Du X, Peng S, Yang L, Ma Y, Gong Y, Li S. Discovering All Transcriptome Single-Nucleotide Polymorphisms and Scanning for Selection Signatures in Ducks (*Anas platyrhynchos*). *Evol Bioinform Online*. 2015 Dec 1;11(Suppl 1):67-76. doi: 10.4137/EBO.S21545. PMID: 26819540; PMCID: PMC4721680.

24. Apopo S, Liu H, Jing L, Du X, Xie S, Gong Y, Xu R, Li S. Identification and profiling of microRNAs associated with white and black plumage pigmentation in the white and black feather bulbs of ducks by RNA sequencing. *Anim Genet*. 2015 Dec;46(6):627-35. doi: 10.1111/age.12343. Epub 2015 Sep 15. PMID: 26369256.

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26. Shijun Li, Wenhua Yu, Cui Wang, Zhenhua Liang, Xiuli Peng, Yanping Feng and Yanzhang Gong Molecular Characterization of the Duck SCF Gene and its Expression Changes in Different Color Plumage Bulbs *Journal of Animal and Veterinary Advances*, 2011,10(2):200-205.

27. Liang Zhenhua, Wang Cui, Yu Wenhua, Peng Xiuli, Feng Yanping, Gong Yanzhang and Li Shijun. Molecular cloning, characterization and expression analysis of duck Tyrosinase-Related Protein-1. *Journal of Animal and Veterinary Advances*, 2010, 9(16): 2102-2108. (IF=0.176)

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29. Li SJ1, Yang SL, Zhao SH, Fan B, Yu M, Wang HS, Li MH, Liu B, Xiong TA, Li K. Genetic diversity analyses of 10 indigenous Chinese pig populations based on 20 microsatellites. *J Anim*

Sci. 2004 Feb;82(2):368-74.

30. Li SJ1, Zhao SH, Tuggle CK. Somatic cell hybrid and RH mapping of the tachykinin 3 gene to porcine chromosome 5. *Anim Genet.* 2005 Feb;36(1):90-91.

31. Ma Y, Gu L, Yang L, Sun C, Xie S, Fang C, Gong Y, Li S. 2018 Identifying artificial selection signals in the chicken genome. *PLoS One.* Apr 26;13(4):e0196215. doi: 10.1371/journal.pone.0196215. eCollection 2018.