

曲鲁江 教授

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曲鲁江 简历

1975年2月17日出生于新疆，1997年毕业于塔里木农垦大学兽医学院，现就职中国农业大学，动物科技学院动物遗传育种与繁殖系家禽，博士生导师，农业部家禽品质监督检验测试中心副主任、质量负责人、检测室主任，中国畜牧兽医学会家禽学分会理事，《中国畜牧杂志》遗传育种部分的主编兼杂志副主编，《生物多样性》杂志编委，主持“十二五”国家科技支撑项目一项、国家自然科学基金三项，参加或子课题主持十余项国家级及省部级课题。获得省部级奖励5项，并发表SCI论文40余篇，其中以第一或通讯作者发表SCI论文30多篇，累计影响因子达60以上，获得发明专利3项，申请发明专利4项。培育蛋鸡新品种6个，并通过国家新品种审定。

1、家禽产业技术研发

参加了“大午金凤”、“农大5号”、“农大3号”、“新杨白”、“新杨绿”、“北京油鸡”等蛋鸡品种的选育及推广，并通过国家畜禽新品种审定。并因此获得了国家科技进步二等奖、北京市科学技术一等奖、安徽省科技进步二等奖等奖励。通过以上科

研工作，在科学技术的研发、推广和应用上创造了相应的价值，对国内外同类研究也有一定的促进作用

2、家禽品质性状形成的分子基础

找到了决定鸡绿壳蛋形成的分子机制，这是迄今为止第一个被发现的决定鸟类蛋壳颜色的基因和突变。已在PLoS Genetics上发表。

3、家禽的抗病遗传育种

鸡对禽流感和马立克氏病的抗病性研究，找到了与鸡抗病相关的部分基因和标记，其可以作为鸡抗病育种的候选标记。已发表在PLoS One, Immunogenetics, Poultry Science等SCI杂志上。

4、家禽遗传多样性

利用分子生物学手段，分析了我国78个地方鸡种和26个地方鸭种的遗传多样性。已发表在多篇SCI论文。

5、家禽的基因组研究

国内外鸡种的全基因组拷贝数变异和插入/缺失突变，已发表在BMC genomics等杂志上。

教育经历：

2005.3-2007.3，瑞典乌普萨拉大学，进化生物学中心，博士后，导师，Hans Ellegren

2001/9 - 2004/7，中国农业大学，动物遗传育种与繁殖，博士，导师：杨宁

1998/9 - 2001/7，新疆农业大学，兽医微生物及免疫学，硕士，导师：单文鲁

1993/9 - 1997/7，塔里木农垦大学，兽医，学士，导师：喻华英

工作经历：

2004/7 - 至今，中国农业大学，动物科技学院，教授

1997/7 - 1998/6，新疆阿勒泰畜牧学校，兽医系，助教

主要主持科研项目及人才计划项目情况：

1、国家自然科学基金面上项目:利用全基因组关联分析鉴定抗鸡白痢的候选基因，2018.1-2022.12

2、国家自然科学基金面上项目:洪山鸡垂尾性状的遗传基础研究，2016.1-2019.12

3、2012年入选教育部新世纪优秀人才

4、国家科技支撑项目，2011BAD28B03、优质高产高效家禽新品种（系）选育与关键技术研究及示范、2011/01-2015/12、1359万、正在进行、主持。

5、现代农业产业技术体系北京市创新团队，CARSTP、家禽团队遗传育种功能研究室主任及岗位科学家、2011/01-2016/12、420万、正在进行、主持。

6、国家自然科学基金青年基金项目，30500357、鸡Mx基因的变异分析及与禽流感抗病力的相关性研究、2006/01-2008/12、25万元、已结题、主持。

First author (co-first author) and corresponding author publications

1. Wang Q, Pi J, Pan A, Shen J, L. Qu. A novel sex-linked mutant affecting tail formation in Hongshan chicken. *Sci Rep.* 2017 Aug 30;7(1):10079.
 2. Wang Q, Mank JE, Li J, Yang N, L. Qu. Allele-Specific Expression Analysis Does Not Support Sex Chromosome Inactivation on the Chicken Z Chromosome. *Genome Biol Evol.* 2017 Mar 1;9(3):619-626.
 3. Nie C, Zhang Z, Zheng J, Sun H, Ning Z, Xu G, Yang N, L. Qu. Genome-wide association study revealed genomic regions related to white/red earlobe color trait in the Rhode Island Red chickens. *BMC Genet.* 2016 Aug 5;17(1):115.
 4. Zhang Z, Nie C, Jia Y, Jiang R, Xia H, Lv X, Chen Y, Li J, Li X, Ning Z, Xu G, Chen J, Yang N, L. Qu. Parallel Evolution of Polydactyl Traits in Chinese and European Chickens. *PLoS One.* 2016 Feb 9;11(2):e0149010.
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 10. Yan, Y., N. Yang, H. H. Cheng, J. Song and L. Qu. Genome-wide identification of copy number variations between two chicken lines that differ in genetic resistance to Marek's disease. *BMC Genomics* 16: 843. 2015.
 11. Yi, G., J. Yuan, H. Bi, W. Yan, N. Yang and L. Qu. In-Depth Duodenal Transcriptome Survey in Chickens with Divergent Feed Efficiency Using RNA-Seq. *PLoS One* 10(9): e0136765. 2015
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 2. Sun, H., S. Chen, X. Cai, G. Xu, and L. Qu Correlation analysis of the total IgY level in hen serum, egg yolk and offspring serum. *J Anim Sci Biotechnol.* 2013. 4:10.
 3. Lian, L., L. Qu, Y. Chen, S. J. Lamont, and N. Yang A systematic analysis of miRNA transcriptome in Marek's disease virus-induced lymphoma reveals novel and differentially expressed miRNAs. *PLoS One.* 2012. 7:e51003.
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 5. Lian, L., L. J. Qu, J. X. Zheng, C. J. Liu, Y. P. Zhang, Y. M. Chen, G. Y. Xu, and N. Yang Expression profiles of genes within a subregion of chicken major histocompatibility complex B in spleen after Marek's disease virus infection. *Poult Sci.* 2011. 89:2123-2129.
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10. **Qu, L.**, X. Li, G. Wu, and N. Yang Efficient and sensitive method of DNA silver staining in polyacrylamide gels. *Electrophoresis.* 2005. 26:99-101.

Other papers (coauthored)

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4. Jin S, Moujahid el ME, Duan Z, Zheng J, **L. Qu**, Xu G, Yang N, Chen S. Association of AMPK subunit gene polymorphisms with growth, feed intake, and feed efficiency in meat-type chickens. *Poult Sci.* 2016 Jul 1;95(7):1492-7.
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6. An, J. Y., J. X. Zheng, J. Y. Li, D. Zeng, **L. J. Qu**, G. Y. Xu, and N. Yang Effect of myofiber characteristics and thickness of perimysium and endomysium on meat tenderness of chickens. *Poult Sci* 89:1750-1754. 2011.
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10. Jie, H., L. Lian, **L. J. Qu**, J. X. Zheng, Z. C. Hou, G. Y. Xu, J. Z. Song, and N. Yang Differential expression of Toll-like receptor genes in lymphoid tissues between Marek's disease virus-infected and noninfected chickens. *Poult Sci* 92:645-654. 2012.
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12. Li, D. F., W. B. Liu, J. F. Liu, G. Q. Yi, L. Lian, **L. J. Qu**, J. Y. Li, G. Y. Xu, and N. Yang Whole-genome scan for signatures of recent selection reveals loci associated with important traits in White Leghorn chickens. *Poult Sci* 91:1804-1812. 2012.
13. Li, G., S. Chen, Z. Duan, **L. Qu**, G. Xu, and N. Yang Comparison of protoporphyrin IX content and related gene expression in the tissues of chickens laying brown-shelled eggs. *Poult Sci* 92:3120-3124. 2013.
14. Li, G., D. Li, N. Yang, **L. Qu**, Z. Hou, J. Zheng, G. Xu, and S. Chen A genome-wide association study identifies novel single nucleotide polymorphisms associated with dermal shank pigmentation in chickens. *Poult Sci.* 2013.
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19. Yan, Y., G. Yi, C. Sun, L. Qu, and N. Yang Genome-wide characterization of insertion and deletion variation in chicken using next generation sequencing. PLoS One 9:e104652. 2014.
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29. Berlin, S., Qu, L. & Ellegren, H. Adaptive evolution of gamete-recognition proteins in birds. J Mol Evol, 67, 488-96. 2008.

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