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张泽 教授

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个人简介

西南农业大学（现西南大学）农学学士学位（1983）、硕士学位（1986）和博士学位（1996）。

1998.10-2000.9日本九州大学生物系遗传学研究室博士后

2002.02-2004.1日本东京大学农学部生物统计学与生物信息学实验室JST研究员

2004.02-2006.1英国伯明翰大学生物科学学院研究职员。

2006年全职回国服务，2008年国务院特殊津贴获得者。

1986年7月-2006年1月西南农业大学农学系讲师、副教授、教授

2006年2月-2007年12月西南大学蚕学与系统生物学研究所二级教授、博导；

2008.1至今重庆大学生命科学学院副院长，二级教授，博士生导师。



研究方向

进化与功能基因组学

研究描述

实验室主要以家蚕为模式研究驯化遗传学和进化及功能基因组学问题。研究方向：（1）动物驯化性状差异的分子解析；（2）家蚕蜕皮激素代谢途径调控机制研究；（3）家蚕转座子的鉴定、功能和比较基因组学研究。目前承担国家自然科学基金等多项课题。主要成果发表在Science, Mol. Biol. Evol., Genetics, BMC Genomics, BMC Evol. Biol.等国际著名杂志。欢迎对生命科学基础研究有浓厚兴趣的同学报考本实验室的研究生。

主讲课程

本科生：《生物统计学》，研究生：《分子进化》、《遗传学研究前沿》

主要成果

发表论文

1. Wang CF, Zhang Z*, Sun W*. (2018) Ecdysone oxidase and 3-dehydroecdysone-3 β -reductase contribute to the synthesis of ecdysone during early embryonic development

of the silkworm. *Int J Biol Sci* 14(11):1472-1482.

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3. Fu P, Sun W, Lai J, Shen YH, Zhang Z*. (2018) Identification of two isoforms of Pop in the domestic silkworm, *Bombyx mori*: Cloning, characterization and expression analysis. *Gene*, 667:101-111.

4. Zhou QZ, Fang SM, Zhang Q, Yu QY, Zhang Z* (2018). Identification and comparison of long non-coding RNAs in the silk gland between domestic and wild silkworms. *Insect Sci*. doi: 10.1111/1744-7917.12443

5. Zhang Q, Sun W, Sun BY, Xiao Y, Zhang Z* (2017). The dynamic landscape of gene regulation during *Bombyx mori* oogenesis. *BMC Genomics* 18: 714

6. Sun W*, Wang CF, Zhang Z (2017). Transcription factor E74A affects the ecdysone titer by regulating the expression of the EO gene in the silkworm, *Bombyx mori*. *BBA-General Subjects* 1861:551–558

7. Han MJ#, Zhou QZ#, Zhang HH, Tong X, Lu C, Zhang Z, Dai F* (2016). iMITEdb: the genome-wide landscape of miniature inverted-repeat transposable elements in insects. *Database (Oxford)* 2016: baw148

8. Yu QY*, Fang SM, Zhang Z, Jiggins CD* (2016). The transcriptome response of *Heliconius melpomene* larvae to a novel host plant. *Mol Ecol* 25(19): 4850-4865

9. Zhou QZ, Zhang B, Yu QY, Zhang Z* (2016). BmncRNAdb: a comprehensive database of non-coding RNAs in the silkworm, *Bombyx mori*. *BMC Bioinformatics* 17(1): 370

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12. Sun W, Zhao XW, Zhang Z* (2015). Identification and evolution of the orphan genes

in the domestic silkworm, *Bombyx mori*. FEBS Letters 589: 2731-2738

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14. Fang SM#, Hu BL#, Zhou QZ, Yu QY*, Zhang Z (2015). Comparative analysis of the silk gland transcriptomes between the domestic and wild silkworms. *BMC Genomics* 16: 60

15. Tang Z, Zhang HH, Huang K, Zhang XG, Han MJ, Zhang Z* (2015). Repeated horizontal transfers of four DNA transposons in invertebrates and bats. *Mob DNA* 6(1): 3

16. Sun W, Shen YH, Han MJ, Cao YF, Zhang Z* (2014). An adaptive transposable element insertion in the regulatory region of the EO gene in the domesticated silkworm, *Bombyx mori*. *Mol Biol Evol* 31: 3302-3313

17. Yang SY#, Han MJ#, Kang LF, Li ZW, Shen YH*, Zhang Z (2014). Demographic history and gene flow during silkworm domestication. *BMC Evol Biol* 14:185

18. Han MJ, Xu HE, Zhang HH, Feschotte C & Zhang Z* (2014). Spy: A new group of eukaryotic DNA transposons without target site duplications. *Genome Biol Evol* 6(7):1748-57

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21. Zhang HH, Xu HE, Shen YH, Han MJ & Zhang Z* (2013). The origin and evolution of six miniature inverted-repeat transposable elements (MITEs) in *Bombyx mori* and *Rhodnius prolixus*. *Genome Biol Evol* 5(11): 2020-2031

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25. Zhao Q, Zhu Z, Kasahara M, Morishita S & Zhang Z* (2013). Segmental duplications in the silkworm genome. *BMC Genomics* 14: 521
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33. Sun W, Shen YH, Qi DW, Xiang ZH & Zhang Z* (2012). Molecular cloning and characterization of ecdysone oxidase and 3-dehydroecdysone-3 α -reductase involved in the ecdysone inactivation pathway of silkworm, *Bombyx mori*. *Int J Biol Sci* 8: 125-138

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40. Li ZW, Li X, Yu QY, Xiang ZH, Kishino H & Zhang Z* (2009). The small heat shock protein (sHSP) genes in the silkworm, *Bombyx mori*, and comparative analysis with other insect sHSP genes. *BMC Evol Biol* 9: 215

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