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研究方向：

分子昆虫学

教育经历：

2006.09 – 2011.06 山东大学生命科学学院，理学博士

2002.09 – 2006.06 西北师范大学生命科学学院，理学学士

工作经历：

2020.11 – 今 南京农业大学植物保护学院，教授，博导

2016.06 – 2020.07 美国弗吉尼亚理工大学，助理研究员

2012.08 – 2016.06 美国弗吉尼亚理工大学，博士后

2011.10 – 2012.07 美国纽约大学，博士后

代表性科研成果：

1. Fu X*, Liu P* (*共一), Dimopoulos G and Zhu J. Dynamic miRNA-mRNA interactions coordinate gene expression in mosquito reproduction. *PLoS Genetics*. 2020. 16(4): p. e1008765.

2. Liu P, Fu X, Zhu J. Juvenile hormone-regulated alternative splicing of the *taiman* gene primes the ecdysteroid response in adult mosquitoes. ***Proc Natl Acad Sci USA***. 2018. 115(33):E7738-E7747.
3. Ojani R, Fu X, Ahmed T, Liu P and Zhu J. Krüppel homolog 1 acts as a repressor and an activator in the transcriptional response to juvenile hormone in adult mosquitoes. ***Insect Mol Biol***. 2018. 27(2):268-278.
4. Yang F, Chan K, Marek PE, Armstrong PM, Liu P, Bova JE, Bernick JN, McMillan BE, Weidlich BG and Paulson SL. Cache Valley Virus in *Aedes japonicus japonicus* Mosquitoes, Appalachian Region, United States. ***Emerg Infect Dis***. 2018. 24(3):553-557.
5. Liu P and Zhu J. Nutrition and Hormones in Mosquito Development and Reproduction. In F. Zeng (Ed.), ***Theory and Practice of Mass Rearing of Insects and Predatory Mites***. 2016. (pp. 63-74). Science Press.
6. Ojani R, Liu P, Fu X and Zhu J. Protein kinase C modulates transcriptional activation by the juvenile hormone receptor methoprene-tolerant. ***Insect Biochem Mol Biol***. 2016. 70:44-52.
7. Liu P, Peng H-J and Zhu J. Juvenile hormone-activated phospholipase C pathway enhances transcriptional activation by the methoprene-tolerant protein. ***Proc Natl Acad Sci USA***. 2015. 112(15):E1871-18791.
8. Li M, Liu P, Wiley JD, Ojani R, Bevan DR, Li J and Zhu J. A steroid receptor coactivator acts as the DNA-binding partner of the methoprene-tolerant protein in regulating juvenile hormone response genes. ***Mol Cell Endocrinol***. 2014. 394(1-2):47-58.
9. Ren J, Li X, Liu P, Cai M, Liu W, Wang J and Zhao X. G-protein α participates in the steroid hormone 20-hydroxyecdysone nongenomic signal transduction. ***J Steroid Biochem Mol Biol***. 2014. 144 Pt B: 313-323.
10. Cai M, Dong D, Wang Y, Liu P, Liu W, Wang J and Zhao X. G-protein-coupled receptor participates in 20-hydroxyecdysone signaling on the plasma membrane. ***Cell Commun Signal***. 2014. 12:9.