



Liu Pengcheng

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Research Area

Molecular Entomology

Education Background

2006.09 – 2011.06 Shandong University, Ph.D.

2002.09 – 2006.06 Northwest Normal University, B.S.

Work Experience

2020.11 – Present Nanjing Agricultural University, Professor

2016.06 – 2020.07 Virginia Tech, Research Associate

2012.08 – 2016.06 Virginia Tech, Postdoctoral Associate

2011.10 – 2012.07 New York University, Postdoctoral Fellow

Representative Research Achievements

1. Fu X*, Liu P* (*Co-first), 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.