

# CURRICULUM VITAE

Personal Information			
Name	ZHU, Fen	Gender	Female
Position Title	Associate Professor		
Working Department	Entomology, College of Plant Science and Technology		
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Research Interest			
<p>My academic interests focus on insect physiology and utilization of insect resources. My current studies are: (1) How to convert organic waste with insects, especially with larvae of housefly, blowfly, and black soldier fly? (2) How to extract and use insects' protein, lipid, and other bioactive components from insects, especially from housefly and black soldier fly. (3) What is the effect of toxic substance on physiology of insect, especially heavy metals? (4) How to use visual and olfactory behavior to control pests?</p>			
Professional Memberships			
Secretary-General, the Entomological Society of Hubei			
Teaching			
General Entomology, Methodology for Plant Diseases and Insects, Advances of Resources Utilization and Plant Protection Technologies			
Education & Working Experience			
2010.12-present Associate professor. Huazhong Agriculture University, China 2012.02-2013.02 Visiting School. University of California, Davis, USA 2006.07-2010.12 Assistant professor. Huazhong Agriculture University, China 2001.09-2006.06 Ph.D. Zoology. Huazhong Agriculture University, China 1996.09-2000.06 B.S. Agronomy. Huazhong Agriculture University, China			
Publications			
<ol style="list-style-type: none"> <li>1. Gao Z, Wang W, Lu X, Zhu F, Liu W, Wang X, Lei C (2019): Bioconversion performance and life table of black soldier fly (<i>Hermetia illucens</i>) on fermented maize straw. <i>Journal of Cleaner Production</i>, 230, 974-980</li> <li>2. Gao Z, Deng W, Zhu F (2019): Reference gene selection for quantitative gene expression analysis in black soldier fly (<i>Hermetia illucens</i>). <i>PloS one</i> 14</li> <li>3. Gao Q, Deng WH, Gao ZH, Li MY, Liu W, Wang XP, Zhu F (2019): Effect of sulfonamide pollution on the growth of manure management candidate <i>Hermetia illucens</i>. <i>PloS one</i> 14</li> <li>4. Wang XY, Wang WQ, Gao Q, Wang XP, Lei CL, Zhu F (2018): <i>Chrysomya megacephala</i> larvae feeding favourably influences manure microbiome, heavy metal stability and greenhouse gas emissions. <i>Microbial biotechnology</i> 11, 498-509</li> <li>5. Wang XY, Gao Q, Wang WQ, Wang XP, Lei CL, Zhu F (2018): The gut bacteria across life stages in the synanthropic fly <i>Chrysomya megacephala</i>. <i>BMC microbiology</i> 18</li> </ol>			

6. Wang XY, Gao Q, Liu XH, Wang XP, Lei CL, Sayed WAA, Zhu F (2018): Metallothionein in *Hermetia illucens* (Linnaeus, 1758) larvae (Diptera: Stratiomyidae), a potential biomarker for organic waste system. *Environ Sci Pollut R* 25, 5379-5385
7. Wang LJ, Liu XH, Liu ZX, Wang XP, Lei CL, Zhu F (2018): Members of the neuropeptide transcriptional network in *Helicoverpa armigera* and their expression in response to light stress. *Gene* 671, 67-77
8. Tian L, Wang XY, Wang XP, Lei CL, Zhu F (2018): Starvation-, thermal- and heavy metal-associated expression of four small heat shock protein genes in *Musca domestica*. *Gene* 642, 268-276
9. Zhao Y, Wang WQ, Zhu F, Wang XY, Wang XP, Lei CL (2017): The gut microbiota in larvae of the housefly *Musca domestica* and their horizontal transfer through feeding. *AMB Express* 7
10. Wang Y, Han W, Wang XY, Chen HM, Zhu F, Wang XP, Lei CL (2017): Speciation of heavy metals and bacteria in cow dung after vermicomposting by the earthworm, *Eisenia fetida*. *Bioresource technology* 245, 411-418
11. Wang WQ, Zhang WJ, Wang XP, Lei CL, Tang R, Zhang F, Yang QZ, Zhu F (2017): Tracing heavy metals in 'swine manure - maggot - chicken' production chain. *Scientific reports* 7
12. Liu ZX, Wang XY, Lei CL, Zhu F (2017): Sensory genes identification with head transcriptome of the migratory armyworm, *Mythimna separata*. *Scientific reports* 7
13. Gao Q, Wang XY, Wang WQ, Lei CL, Zhu F (2017): Influences of chromium and cadmium on the development of black soldier fly larvae. *Environ Sci Pollut R* 24, 8637-8644
14. Xu P, Zhu F, Buss GK, Leal WS (2015): 1-Octen-3-ol - the attractant that repels. *F1000Res* 4, 156
15. Zhu F, Xu PX, Barbosa RMR, Choo YM, Leal WS (2013): RNAi-based demonstration of direct link between specific odorant receptors and mosquito oviposition behavior. *Insect Biochem Molec* 43, 916-923
16. Xu PX, Choo YM, Pelletier J, Sujimoto FR, Hughes DT, Zhu F, Atungulu E, Cornel AJ, Luetje CW, Leal WS (2013): Silent, generic and plant kairomone sensitive odorant receptors from the Southern house mosquito. *J Insect Physiol* 59, 961-966
17. Sayed WAA, Ibrahim NS, Hatab MH, Zhu F, Rumpold BA (2019): Comparative Study of the Use of Insect Meal from *Spodoptera littoralis* and *Bactrocera zonata* for Feeding Japanese Quail Chicks. *Animals* 9
18. Tang R, Zhang F, Kone N, Chen JH, Zhu F, Han RC, Lei CL, Kenis M, Huang LQ, Wang CZ (2016): Identification and testing of oviposition attractant chemical compounds for *Musca domestica*. *Scientific reports* 6
19. Charlton AJ, Dickinson M, Wakefield ME, Fitches E, Kenis M, Han R, Zhu F, Kone N, Grant M, Devic E, Bruggeman G, Prior R, Smith R (2015): Exploring the chemical safety of fly larvae as a source of protein for animal feed. *Journal of Insects as Food and Feed* 1, 7-16