CURRICULUM VITAE

Personal Information			
Name	Zhen-yu Zhang	Gender	male
Position Title		Associate professor	
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Research Interest

- The prevention and control of major pests of the citrus.
- The application of edible insects for bio-conversion of organic wastes.

Professional Memberships

- Member of the The Entomological Society of China

Other Roles

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Education & Working Experience

- **Education：**

- Ph. D.： 09/2005~01/2011; State Key Laboratory of Integrated Management of Pest Insects and Rodents, Institute of Zoology, Chinese Academy of Sciences; Ecology.
- Master： 09/2002~01/2006; State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University; Biochemistry and Molecular Biology.
- Bachelor： 09/1999~06/2003; School of Life Sciences, Huazhong Agricultural University Biotechnology.

- **Working Experience:**

- 2021-Present: Associate professor; College of Plant Science and Technology, Huazhong Agricultural University.
- 2013-2020: Lecturer; College of Plant Science and Technology, Huazhong Agricultural University.
- 2011-2013: Research assistant; State Key Laboratory of Integrated Management of Pest Insects and Rodents, Institute of Zoology, Chinese Academy of Sciences.

Publications

1. Zhang J.[#], Long Chen L.[#], Zhao S., Hou D., Qin W., Zhu X., Luo L., Chen D., Tomberlin J.K., **Zhang Z.***, Li Q.*, Electric field mitigates NH_3 and N_2O emissions during bioconversion of dairy manure by black soldier fly. ***Chemical Engineering Journal***, 2024. 484: p. 149483.

2. Qin W., Zhang J., Hou D., Li X., Jiang H., Chen H., Yu Z., Tomberlin J. K., **Zhang Z.***, Li Q.* (2022). Effects of biochar amendment on bioconversion of soybean dregs by black soldier fly. ***Science of The Total Environment***, 829: 154605

3. Zheng W. [#], Wu F. [#], Ye Y., Li T., **Zhang Z.***, Zhang H.*. (2022). Small GTPase Rab40C is upregulated by 20-hydroxyecdysone and insulin pathways to regulate ovarian development and fecundity. ***Insect Science***, 0, 1–18.

4. Awan U.A. [#], Meng L. [#], Xia S., Raza M.F., **Zhang Z.***, Zhang H.*. (2021). Isolation, fermentation, and formulation of entomopathogenic fungi virulent against adults of *Diaphorina citri.* ***Pest Management Science***, 77(9): 4040-4053.

5. Awan U.A., Xia S., Meng L., Raza M., **Zhang Z.***, Zhang H*. (2021). Isolation, characterization, culturing, and formulation of a new *Beauveria bassiana* fungus against *Diaphorina citri*. ***Biological Control***, 158: 104586.

6. **Zhang, Z.**[#], Ren, J.[#], Chu, F.[#,] Guan, J., Yang, G., Liu, Y., Zhang, X., Ge, S.*, and Huang, Q.* (2021). Biochemical, molecular, and morphological variations of flight muscles before and after dispersal flight in a eusocial termite, *Reticulitermes chinensis*. ***Insect Science 00***, 1–16.

7. **Zhang, Z.**, Ali, M.W., Saqib, H.S.A., Liu, S., Yang, X., Li, Q., and Zhang, H.* (2020). A Shift Pattern of Bacterial Communities Across the Life Stages of the Citrus Red Mite, Panonychus citri. ***Frontiers in Microbiology***. 11. doi: 10.3389/fmicb.2020.01620.

8. Zhang, J.[#], **Zhang, Z.**[#], Zhang, R., Zhang, W., Li, H., Li, T., Zhang, H., and Zheng, W.* (2019). Identification of COP9 Signalosome Subunit Genes in Bactrocera dorsalis and Functional Analysis of csn3 in Female Fecundity. ***Frontiers in Physiology*** 10, 162. doi: 10.3389/fphys.2019.00162.

9. Wen, D.[#], Liu, J., Fan, S., **Zhang, Z.***, and Wu, G. (2019). Evaluation on the fitness and population projection of Nilaparvata lugens in response to elevated CO2 using two-sex life table. ***International Journal of Pest Management,*** 1-10. doi: 10.1080/09670874.2019.1654146.

10. Ju, S.[#], Cao, Z.[#], Wong, C., Liu, Y., Foda, M.F., **Zhang, Z.***, and Li, J.* (2019). Isolation and optimal fermentation condition of the Bacillus subtilis subsp. natto strain WTC016 for nattokinase production. ***Fermentation*** 5, 92. doi: 10.3390/fermentation5040092.

11. **Zhang, Z.Y.**, Raza, M.F., Zheng, Z., Zhang, X., Dong, X., and Zhang, H.* (2018). Complete genome sequence of Bacillus velezensis ZY-1-1 reveals the genetic basis for its hemicellulosic/cellulosic substrate-inducible xylanase and cellulase activities. ***3 Biotech*** 8, 465. doi: 10.1007/s13205-018-1490-x.

12. **Zhang, Z.Y.**[#], Yuan, Y.[#], Ali, M.W., Peng, T., Peng, W., Raza, M.F., Zhao, Y., and Zhang, H.* (2018). Cultivable anaerobic and aerobic bacterial communities in the fermentation chambers of Holotrichia parallela (coleoptera: scarabaeidae) larvae. ***PLoS One*** 13, e0190663. doi: 10.1371/journal.pone.0190663.

13. Ali, M.W.[#], **Zhang, Z.Y.**[#], Xia, S., and Zhang, H.* (2017). Biofunctional analysis of Vitellogenin and

Vitellogenin receptor in citrus red mites, Panonychus citri by RNA interference. ***Scientific Reports*** 7, 16123. doi: 10.1038/s41598-017-16331-3.

14. **Zhang, Z.**, Chen, B., Zhao, D., and Kang, L.* (2013). Functional modulation of mitochondrial cytochrome c oxidase underlies adaptation to high-altitude hypoxia in a Tibetan migratory locust. ***Proceedings of the Royal Society B: Biological Sciences*** 280, 20122758. doi: 10.1098/rspb.2012.2758.
15. Zhao, D., **Zhang, Z.**, Cease, A., Harrison, J., and Kang, L.* (2013). Efficient utilization of aerobic metabolism helps Tibetan locusts conquer hypoxia. ***BMC Genomics*** 14, 631. doi: 10.1186/1471-2164-14-631.
16. Zhao, D.J., **Zhang, Z.Y.**, Harrison, J., and Kang, L.* (2012). Genome-wide analysis of transcriptional changes in the thoracic muscle of the migratory locust, *Locusta migratoria*, exposed to hypobaric hypoxia. ***Journal of Insect Physiology***. 58, 1424-31. doi: 10.1016/j.jinsphys.2012.08.006.
17. Peng, D.[#], Wang, F., Li, N., **Zhang, Z.**, Song, R., Zhu, Z., Ruan, L., and Sun, M.* (2011). Single cysteine substitution in Bacillus thuringiensis Cry7Ba1 improves the crystal solubility and produces toxicity to Plutella xylostella larvae. ***Environmental Microbiology*** 13, 2820-31. doi: 10.1111/j.1462-2920.2011.02557.x.

Additional Information