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MAJOR

Biochemistry and Molecular Biology

EDUCATION

9.2014- 12.2020	Ph.D. Biochemistry and Molecular Biology	Kunming Institute of Botany, Chinese Academy of Sciences; Kunming, China, Supervisor: Prof. Jianqiang Wu
9.2010- 6.2014	B.S. Biotechnology	College of Life Science, Northeast Agricultural University; Harbin, China.

ACADEMIC APPOINTMENTS

1.2020 - Present: Postdoc., Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China



PAPERS

First Author Papers

1. **Zhang Jingxiong**, Xu Yuxing, Xie Jing, Zhuang Huifu, Liu Hui, Shen Guojing*, Wu Jianqiang*. Parasite dodder enables transfer of bidirectional systemic nitrogen signals between host plants. *Plant Physiol* 2020 (in press).
2. Qin, Yan#. **Zhang, Jingxiong**#. Hettenhausen, Christian#. Liu, Hui. Li, Shalan. Shen, Guojing. Cao, Guoyan. Wu, Jianqiang*. The host jasmonic acid pathway regulates the transcriptomic changes of dodder and host plant under the scenario of caterpillar feeding on dodder. *BMC Plant Biol.* 19, doi:10.1186/s12870-019-2161-8 (2019).
<https://pubmed.ncbi.nlm.nih.gov/31801469/>

Other Papers

1. Shen Guojing#, Liu Nian#, **Zhang Jingxiong**, Xu Yuxing, Baldwin IT, Wu Jianqiang: *Cuscuta australis* (dodder) parasite eavesdrops on the host plants' FT signals to flower. *Proc Natl Acad Sci U S A* 2020, 117(37):23125-23133, doi: 10.1073/pnas.2009445117 (2020).
<https://pubmed.ncbi.nlm.nih.gov/32868415/>
2. Liu, Nian. Shen, Guojing. Xu, Yuxing. Liu, Hui. **Zhang, Jingxiong**. Li, Shalan. Li, Jing. Zhang, Cuiping. Qi, Jinfeng. Wang, Lei. Wu, Jianqiang. Extensive inter-plant protein transfer between *Cuscuta* parasites and their host plants. *Mol Plant* 13, 573-585, doi:10.1016/j.molp.2019.12.002 (2020).
<https://pubmed.ncbi.nlm.nih.gov/31812691/>
3. Li, Shalan. **Zhang, Jingxiong**. Liu, Hui. Liu, Nian. Shen, Guojing. Zhuang, Huifu. Wu, Jianqiang. Dodder-transmitted mobile signals prime host plants for enhanced salt tolerance. *J. Exp. Bot.* 71, 1171-1184, doi:10.1093/jxb/erz481 (2020).
<https://pubmed.ncbi.nlm.nih.gov/31665509/>
4. Malook, Saif Ul#. Qi, Jinfeng#. Hettenhausen#, Christian. Xu, Yuxing. Zhang, Cuiping. **Zhang, Jingxiong**. Lu, Chengkai. Li, Jing. Wang, Lei. Wu, Jianqiang*. The oriental armyworm (*Mythimna separata*) feeding induces systemic defence responses within and between maize leaves. *Philos Trans R Soc Lond B Biol Sci* 374, 20180307, doi:10.1098/rstb.2018.0307 (2019).
<https://pubmed.ncbi.nlm.nih.gov/30967023/>
5. Sun, Guiling#. Xu, Yuxing#. Liu, Hui#. Sun, Ting. **Zhang, Jingxiong**. Hettenhausen, Christian. Shen, Guojing. Qi, Jinfeng. Qin, Yan. Li, Jing. Wang, Lei. Chang, Wei. Guo, Zhenhua. Baldwin, Ian T. Wu, Jianqiang. Large-scale gene losses underlie the genome evolution of parasitic plant *Cuscuta australis*. *Nature Communications* 9, 2683, doi:10.1038/s41467-018-04721-8 (2018).
<https://pubmed.ncbi.nlm.nih.gov/29992948/>
6. Qi, Jinfeng. Malook, Saif Ul. Shen, Guojing. Gao, Lei. Zhang, Cuiping. Li, Jing. **Zhang, Jingxiong**. Wang, Lei. Wu, Jianqiang. Current understanding of maize and rice defense against insect herbivores. *Plant Divers* 40, 189-195, doi:10.1016/j.pld.2018.06.006 (2018).
<https://pubmed.ncbi.nlm.nih.gov/30740564/>
7. Lu, Chengkai. Qi, Jinfeng. Hettenhausen, Christian. Lei, Yunting. Zhang, **Jingxiong**. **Zhang**, Mou. Zhang, Cuiping. Song, Juan. Li, Jing. Cao, Guoyan. Malook, Saif Ul. Wu, Jianqiang*. Elevated CO₂ differentially affects tobacco and rice defense against lepidopteran larvae via the jasmonic acid signaling pathway. *J Integr Plant Biol* 60, 412-431, doi:10.1111/jipb.12633 (2018).
<https://pubmed.ncbi.nlm.nih.gov/29319235/>
8. Hettenhausen, Christian#. Li, Juan. Zhuang#, Huifu. Sun, Huanhuan. Xu, Yuxing. Qi, Jinfeng. Zhang, Jingxiong. Lei, Yunting. Qin, Yan. Sun, Guiling. Wang, Lei. Baldwin, Ian T. Wu, Jianqiang. Stem parasitic plant *Cuscuta australis* (dodder) transfers herbivory-induced signals among plants. *Proc Natl Acad Sci U S A* 114, E6703-E6709, doi:10.1073/pnas.1704536114 (2017).
<https://pubmed.ncbi.nlm.nih.gov/28739895/>



AWARDS RECEIVED

1. 2010, Merit Student, Office of Education.
2. 2015, Merit Student, University of Chinese Academy of Sciences.
3. 2015, Excellent Student Leader, University of Chinese Academy of Sciences.
4. 2015, Excellent Communist Party Member, University of Chinese Academy of Sciences.

GRANTS

1. 2020, China National Scholarship, Ministry of Education.
2. 2019, Economic Plants and Biotechnology Youth Forum, First Prize, Kunming Institute of Botany, Chinese Academy of Sciences.
3. 2018, Wu Zhengyi's Academic Lecture, Third Prize, Kunming Institute of Botany, Chinese Academy of Sciences.
4. 2018, Economic Plants and Biotechnology Youth Forum, Second Prize, Kunming Institute of Botany, Chinese Academy of Sciences.

STUDENTS POSITION

1. 6. 2010 - 9. 2012, League Branch Secretary, College of Life Science, Northeast Agricultural University.
2. 6. 2012 - 9. 2014, Monitor, College of Life Science, Northeast Agricultural University.
3. 6. 2014 - 9. 2015, Monitor and Students Leader, College of Life Science, University of Chinese Academy of Sciences.
4. 6. 2015 - 9. 2016, President of Graduate Student Union, Kunming Institute of Botany, Chinese Academy of Sciences.
5. 11. 2017 - 11. 2020, Party Branch Committee, Kunming Institute of Botany, Chinese Academy of Sciences.