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| **研究方向** | 植物与昆虫、寄生植物、微生物互作研究 |

**简历：**

齐金峰，农学博士，中国科学院昆明植物研究所副研究员。获中国科学院昆明植物研究所第三届人才培养荣誉奖励、入选中国科学院青年创新促进会会员及云南省“云岭青年人才” 计划。先后主持中国博士后科学基金面上项目和特别资助项目、国家自然科学基金青年项目及面上项目、云南省科技厅基础研究面上项目、来自企业及高校的横向项目等。研究领域主要为玉米抗虫分子机理解析、寄生植物介导的寄主信号和微生物介导的植物抗虫反应等。

**教育背景**

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| 时间 | 学历及获奖情况 | 学校及专业 |
| **2007.9**  **-2012.6** | **农学 博士**  **论文：**水稻抗虫相关基因*OsPLDa4/5* 和*OsJMT1* 的功能解析  **获奖：**优秀研究生一等奖荣誉、博士引领计划一等津贴，浙江大学及浙江省优秀毕业生等 | 浙江大学  农业昆虫与生物防治专业  导师：娄永根 教授 |
| **2003.9**  **-2007.6** | **农学 学士**  **获奖：**企业奖学金以及连续五次一等专业奖学金和学习单项奖学金，并获得校长奖学金等 | 山东农业大学  植物保护（师范）专业 |

**工作经历**

2018.01-至今：中国科学院昆明植物研究所，副研究员；

2017.01-2018.01：中国科学院昆明植物研究所，助理研究员；

2012.06-2016.12：中国科学院昆明植物研究所，博士后。

**会议报告**

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| 时间，地点 | 会议 | 报告 |
| 2010.10.11  上海 | 第八届全国化学生态学学术研讨会 | *OsHI-PLD* participate in direct and indirect herbivore-induced defense responses in rice |
| 2011.10.13  北京 | 第六届亚太化学生态会议 | Isolation and Characterization of a rice jasmonic acid carboxyl methyltransferase gene |
| 2016.07.25  武汉 | 第十一届全国化学生态学学术研讨会 | 多组学揭示玉米特异识别粘虫口水诱导的防御反应 |

**发表文章：**

Malook, S., **Qi, JF**., Hettenhausen, C., Xu, Y., Zhang, C., Zhang, J., Lu, C., Li, J., Wang, L., **Wu, J.\*** (2019) The oriental armyworm (*Mythimna separata*) feeding induces systemic defense responses within and between maize leaves. **Philosophical Transactions of the Royal Society B** 374: 20180307 **(Co-first author)**

https://royalsocietypublishing.org/doi/10.1098/rstb.2018.0307

**Qi, JF.**, Malook, S., Shen, G., Gao, L., Zhang, C., Li, J., Zhang, J., Wang, L., **Wu, J.\*** (2018) Current understanding of maize and rice defense against insect herbivores. **Plant Diversity** 40: 189-195. (Review)

<https://www.sciencedirect.com/science/article/pii/S2468265918300696>

Guo, JF., **Qi, JF.**, He, KL., Wu, JQ., Bai, SX., Zhang, TQ., Zhao, JR., et al. (2018). The Asian corn borer *Ostrinia furnacalis* feeding increases the direct and indirect defense of mid-whorl stage commercial maize in the field. Plant Biotechnology Journal. DOI: 10.1111/pbi.12949

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**Qi, JF.**, Zhang, M., Lu, CK., Hettenhausen, C., Tan, Q., Cao, G.Y., et al. (2018). Ultraviolet-B enhances the resistance of multiple plant species to lepidopteran insect herbivory through the jasmonic acid pathway. Scientific Reports. 8.

<https://www.nature.com/articles/s41598-017-18600-7>

Lu, CK., **Qi, JF.**, Hettenhausen, C., Lei, Y., Zhang, J., Zhang, M., et al. (2018). Elevated CO2 differentially affects tobacco and rice defense against lepidopteran larvae via the jasmonic acid signaling pathway. Journal of Integrative Plant Biology.

<http://onlinelibrary.wiley.com/doi/10.1111/jipb.12633/epdf>

Sun, G., Xu, Y., Liu, H., Sun, T., Zhang, J., Hettenhausen, C., Shen, G., **Qi, JF** Qin, Y., Li, J., Wang, L., Chang, W., Guo, Z., Baldwin, I.T., and Wu, J. (2018). Large-scale gene losses underlie the genome evolution of parasitic plant *Cuscuta australis*. Nat Commun 9: 2683.

<https://www.ncbi.nlm.nih.gov/pubmed/29992948>

Hettenhausen, C., Li, J., Zhuang, H., Sun, H., Xu, Y., **Qi, JF**, et al. (2017) Stem parasitic plant Cuscuta australis (dodder) transfers herbivory-induced signals among plants. Proc Natl Acad Sci U S A. 114: E6703-E6709.

http://www.pnas.org/content/early/2017/07/20/1704536114.short

Wang H.(#)，**Qi JF.**(#), Xiao DR., Wang ZB., Tian K., (2017) A re-evaluation of dilution for eliminating PCR inhibition in soil DNA samples, **Soil Biology and Biochemistry**， 106: 109~118. **(Co-first author)**

http://www.sciencedirect.com/science/article/pii/S0038071716307763

**Qi JF**.(#), Sun GL. (#), Wang L. (#), Zhao CX.(#), Hettenhausen C., Schuman M.C., . . . Wu JQ. (2016) Oral secretions from *Mythimna separata* insects specifically induce defence responses in maize as revealed by high-dimensional biological data. **Plant Cell & Environment** 39:1749-1766. http://www.ncbi.nlm.nih.gov/pubmed/26991784

**Qi JF**.(#), Li JC. (#), Han X.(#)., Li R., Wu J., Yu H., . . . Lou YG. (2016) Jasmonic acid carboxyl methyltransferase regulates development and herbivory-induced defense response in rice. **Journal of Integrative Plant Biology** 58: 564-576.

<http://www.ncbi.nlm.nih.gov/pubmed/26466818>

Hettenhausen C.，Sun, GL.，He, YB.，Zhuang, HF.，Sun, T.，**Qi, JF.**，Wu, JQ. (2016) Genome-wide identification of calcium-dependent protein kinases in soybean and analyses of their transcriptional responses to insect herbivory and drought stress，Scientific Reports, 18973.

https://www.nature.com/articles/srep18973

Zhang DL, **Qi JF**(#)., Yue J.P., Huang J.L., Sun T., Li S.P., . . . Sun G.L. (2014) Root parasitic plant *Orobanche aegyptiaca* and shoot parasitic plant *Cuscuta australis* obtained Brassicaceae-specific strictosidine synthase-like genes by horizontal gene transfer. Bmc Plant Biology 14: 19. **(Co-first author)**

http://www.ncbi.nlm.nih.gov/pubmed/24411025

**Qi JF**, Zhou GX, Yang LJ, Erb M, Lu YH, Sun XL, Cheng JA, Lou YG (2011) The chloroplast-localized phospholipases d alpha 4 and alpha 5 regulate herbivore-induced direct and indirect defenses in rice. **Plant Physiology** 157: 1987-1999 <http://www.ncbi.nlm.nih.gov/pubmed/21984727>

Tong X.H(#), **Qi JF**, (#)**,** Zhu XD, Zeng LJ, Wang BH, Li Q, Zhou GX, Mao BZ, Lou YG, He ZH (2012) The rice hydroperoxide lyase OsHPL3 functions in defense responses by modulating the oxylipin pathway. **Plant Journal** 71: 763-775 (Co-first author) <http://www.ncbi.nlm.nih.gov/pubmed/22519706>

Zhou GX, **Qi JF**,, Ren N, Cheng JA, Erb M, Mao BZ, Lou YG (2009) Silencing OsHI-LOX makes rice more susceptible to chewing herbivores, but enhances resistance to a phloem feeder. **Plant Journal** 60**:** 638-648 <http://www.ncbi.nlm.nih.gov/pubmed/19656341>

Zhang T, Luan JB, **Qi JF**,, Huang CJ, Li M, Zhou XP, Liu SS (2012) Begomovirus-whitefly mutualism is achieved through repression of plant defences by a virus pathogenicity factor. **Molecular Ecology** 21: 1294-1304 <http://www.ncbi.nlm.nih.gov/pubmed/22269032>

Xin ZJ, Yu ZN, Erb M, Turlings TCJ, Wang BH, **Qi JF**,, Liu SN, Lou YG (2012) The broad-leaf herbicide 2,4-dichlorophenoxyacetic acid turns rice into a living trap for a major insect pest and a parasitic wasp. **New Phytologist** 194: 498–510

<http://www.ncbi.nlm.nih.gov/pubmed/22313362>