

## 卢云泽

男，1990年1月生，广西南宁人，博士，讲师。2012年7月毕业于西北农林科技大学创新实验学院植物科学与技术专业；2014年7月和2018年7月先后从西北农林科技大学农学院作物遗传育种专业毕业，分别获农学硕士和农学博士学位。2018年9月任教于河北工程大学园林与生态工程学院。



### 研究方向：

小麦耐热的分子生物学基础

### 目前承担科研项目：

主持河北省省级科技计划1项——小麦种质资源耐热性筛选和耐热候选基因挖掘（2022-2025年）；

主持河北省自然科学基金青年项目1项——小麦*TaFes1-5A1*基因在热胁迫下的功能和作用机理研究（2020-2022年）。

### 发表论文：

1. **Yunze Lu\***, Mingran Ha, Xinming Li, Junzhe Wang, Ruirui Mo and Aihua Zhang (2022) Distribution, expression of hexaploid wheat *Fes1s* and functional characterization of two *TaFes1As* in Arabidopsis. *Frontiers in Plant Science* 13:1037989.
2. **Yunze Lu\***, Peng Zhao, Aihua Zhang, Junzhe Wang, Mingran Ha (2022) Genome-wide analysis of HSP70s in hexaploid wheat: tandem duplication, heat response, and regulation. *Cells* 11, 818.
3. **Yunze Lu**, Peng Zhao, Aihua Zhang, Lingjian Ma, Shengbao Xu, Xiaoming Wang\* (2020) Alternative splicing diversified the heat response and evolutionary strategy of conserved heat shock protein 90s in hexaploid wheat (*Triticum aestivum* L.). *Frontiers in Genetics* 11:577897.
4. **Yunze Lu**, Ruiqiong Li, Ruochen Wang, Xiaoming Wang, Weijun Zheng, Qixin Sun, Shaoming Tong, Shaojun Dai, Shengbao Xu\* (2017) Comparative proteomic analysis of flag leaves reveals new insight into wheat heat adaptation. *Frontiers in Plant Science* 8:1086.
5. **Yunze Lu<sup>#</sup>**, Le Wang<sup>#</sup>, Hong Yue, Mengxing Wang, Pingchuan Deng, David

- Edwards, Song Weining\* (2014) Comparative analysis of *Stowaway*-like miniature inverted repeat transposable elements in wheat group 7 chromosomes: abundance, composition, and evolution. *Journal of Systematics and Evolution* 52 (6): 743-749.
6. Xiaoming Wang, Siyuan Chen, Xue Shi, Danni Liu, Peng Zhao, **Yunze Lu**, Yanbing Cheng, Zhenshan Liu, Xiaojun Nie, Weining Song, Qixin Sun, Shengbao Xu,\* Chuang Ma\* (2019) Hybrid sequencing reveals insight into heat sensing and signaling of bread wheat. *The Plant Journal* 98(6): 1015-1032.
  7. Xiaoming Wang, Lijiang Hou, **Yunze Lu**, Xue Gong, Manshuang Liu, Jun Wang, Qixin Sun, Elizabeth Vierling, and Shengbao Xu (2018) Metabolic adaptation of wheat grains contributes to a stable filling rate under heat stress. *Journal of Experimental Botany*. ery303, <https://doi.org/10.1093/jxb/ery303>
  8. Jun Wang, Junzhe Wang, **Yunze Lu**, Yan Fang, Xin Gao, Zhonghua Wang, Weijun Zheng, Shengbao Xu. (2018) The heat responsive wheat *TaRAD23* rescues developmental and thermotolerant defects of the *rad23b* mutant in *Arabidopsis thaliana*. *Plant Science*, 274: 23-31.
  9. Ruiqiong Li<sup>#</sup>, Lijiang Hou<sup>#</sup>, Aihua Zhang, **Yunze Lu**, Weining Song, Wuletaw Tadesse, Xiaoming Wang, Manshuang Liu, Weijun Zheng\* and Shengbao Xu\* (2018) Heat stress in filling stage confers distinct effect on starch granules formation in different thermo-tolerant wheat accessions. *Pakistan Journal of Botany*, 50(3): 913-920.
  10. Xiaojun Nie, Peixun Liu, Pingchuan Deng, **Yunze Lu**, Siddanagouda S. Biradar, Xianghong Du, Aiping Wu, Fanghao Wan, Song Weining\* (2014) Large-scale identification of microsatellites for a major invasive weed, *Ageratina adenophora*, using the Illumina sequencing technology. *Weed Research*, 54, 133-139.

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