

# 洪焯淳简历

## 学习经历:

2010年9月 - 2014年6月 中山大学生命科学学院, 理学学士  
2014年9月 - 2020年7月 中科院上海植物逆境生物学研究中心,  
理学博士

(导师: 朱健康院士)

## 工作经历:

2020年7月 - 2022年9月 南方科技大学生物系, 博士后  
2022年10月至今 南方科技大学前沿生物技术研究院, 研  
究助理教授

## 获奖经历:

2021 南方科技大学校长卓越博士后  
2020 朱李月华优秀博士生奖学金  
2016 - 2017 中国科学院大学“三好学生”  
2014 - 2015 中国科学院优秀大学生奖学金  
2013 - 2014 国家励志奖学金, 校级优秀学生奖学金二等奖,  
温氏学术交流奖学金(台湾辅仁大学生命  
科学系交换学习)  
2012 - 2013 国家励志奖学金, 校级优秀学生奖学金三等奖  
2011 - 2012 国家励志奖学金, 校级优秀学生奖学金三等奖

## 发表文章(# 共同第一作者; \* 共同通讯作者)

第一作者(共同第一作者)文章:

1. Yechun Hong#, Zongjun Yu#, Qian Zhou, Chunyu Chen, Yuqiong Hao, Zhen Wang, Jian-Kang Zhu, Hongwei Guo and Ancheng C. Huang\*. NAD<sup>+</sup> deficiency primes defense metabolism via 102-escalated jasmonates biosynthesis in plants. Nature Communications, 2024, 15(1): 6652.

2. Zhen Wang#\*, Yechun Hong#, Dianjue Li, Zhiqiang Wang, Zhen-Fei Chao, Yongdong Yu, Guangtao Zhu\* and Jian-Kang Zhu\*.

Association analysis provides insights into molecular evolution in salt tolerance during tomato domestication. *Plant Physiology*, 2024, kiae516

3. Yechun Hong#, Yang Gao#, Jia Pang, Huazhong Shi, Tingting Li, Huiying Meng, Dali Kong, Yunjuan Chen, Jian-Kang Zhu\* and Zhen Wang\*. The Sm core protein SmEb regulates salt stress responses through maintaining proper splicing of RCD1 pre-mRNA in *Arabidopsis*. *Journal of Integrative Plant Biology*, 2023, 65(6):1383–1393.

4. Yechun Hong#, Xijin Guan#, Xu Wang#, Dali Kong, Shuojun Yu, Zhiqiang Wang, Yongdong Yu, Zhen-Fei Chao, Xue Liu, Sanwen Huang, Jian-Kang Zhu, Guangtao Zhu\*, and Zhen Wang\*. Natural variation in SISOS2 promoter hinders salt resistance during tomato domestication. *Horticulture Research*, 2023, 10(1): uhac244.

5. Huiying Meng#, Yunjuan Chen#, Tingting Li, Huazhong Shi, Shuojun Yu, Yang Gao, Zhiqiang Wang, Xu Wang, Jian - Kang Zhu, Yechun Hong\* and Zhen Wang\*. APETALA2 is involved in ABA signaling during seed germination. *Plant Molecular Biology*, 2023, 112, 99 – 103.

6. Zhen Wang#, Yechun Hong#, Juanjuan Yao, Huan Huang, Bilian Qian, Xue Liu, Yunjuan Chen, Jia Pang, Xiangqiang Zhan, Jian-Kang Zhu, and Jianhua Zhu\*. Modulation of plant development and chilling stress responses by alternative splicing events under control of the spliceosome protein SmEb in *Arabidopsis*. *Plant, Cell & Environment*, 2022, 45, 2762–2779.

7. Yuqiong Hao#, Yechun Hong#, Huimin Guo, Peiyu Qin, Ancheng Huang, Xiushi Yang\*, and Guixing Ren\*. Transcriptomic and metabolomic landscape of quinoa during seed germination. *BMC Plant Biology*, 2022, 22(1): 237.

8. Yechun Hong#, Qian Zhou#, Yuqiong Hao, and Ancheng C Huang\*. Crafting plant root metabolome for improved microbe - assisted stress resilience. *New Phytologist*, 2022, 234, 1945–1950.

9. Yechun Hong#, Yunjuan Chen#, Huazhong Shi, Xiangfeng Kong, Juanjuan Yao, Mingguang Lei, Jian-Kang Zhu, and Zhen Wang\*. SUMO E3 ligase SIZ1 negatively regulates arsenite resistance via depressing GSH biosynthesis in Arabidopsis. *Stress Biology*, 2022, 1(9).

10. Yechun Hong#, Juanjuan Yao#, Huazhong Shi, Yunjuan Chen, Jian-Kang Zhu, and Zhen Wang\*. The Arabidopsis spliceosomal protein SmEb modulates ABA responses by maintaining proper alternative splicing of HABI. *Stress Biology*, 2021, 1(4).

11. Zhen Wang#, Yechun Hong#, Yumei Li, Huazhong Shi, Juanjuan Yao, Xue Liu, Fuxing Wang, Sanwen Huang, Guangtao Zhu\*, and Jian-Kang Zhu\*. Natural variations in SLSOS1 contribute to the loss of salt tolerance during tomato domestication. *Plant Biotechnology Journal*, 2021, 19 (1) , pp.20-22.

12. Xiangfeng, Kong#, Yechun Hong#, Yi-Feng Hsu, Huan Huang, Xue Liu, Zhe Song, and Jian-Kang Zhu\*. SIZ1-mediated SUMOylation of ROS1 enhances its stability and positively regulates active DNA demethylation in Arabidopsis. *Molecular Plant*, 2020, 13(13): 1-9.

13. Yechun Hong#, Zhen Wang#\*, Huazhong Shi, Juanjuan Yao, Xue Liu, Fuxing Wang, Liang Zeng, Zhi Xie, and Jian-Kang Zhu\*. Reciprocal regulation between nicotinamide adenine dinucleotide metabolism and abscisic acid and stress response pathways in Arabidopsis. *PLOS Genetics*, 2020, 16(6):e1008892.

14. Zhen Wang#, Yechun Hong#, Guangtao Zhu#, Yumei Li, Qingfeng Niu, Juanjuan Yao, Kai Hua, Jinjuan Bai, Yingfang Zhu, Huazhong Shi, Sanwen Huang\*, and Jian-Kang Zhu\*. Loss of salt tolerance during tomato domestication conferred by variation in a Na<sup>+</sup>/K<sup>+</sup> transporter. *The EMBO Journal*, 2020, 39(10):e103256 (Highlighted by The EMBO Journal, <https://doi.org/10.15252/embj.2020104997>, 中国科学报).

15. Yechun Hong#, Zhen Wang#, Xue Liu, Juanjuan Yao, Xiangfeng Kong, Huazhong Shi, and Jian-Kang Zhu\*. Two chloroplast

proteins negatively regulate plant drought resistance through separate pathways. *Plant Physiology*, 2020, 182(2) 1007–1021.