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蔡汉阳，男，特聘副教授。福建省高层次人才(C类)，福建省杰出青年基金获得者，福建农林大学校杰出青年基金获得者。主要研究方向为植物生殖发育。以第一作者或通讯作者(含同等贡献)在Plant Cell (1篇), Current Biology (1篇), PNAS (1篇), New Phytologist (4篇), Journal of Experimental Botany (1篇), iScience (2篇)等SCI杂志上发表论文20篇。博士学位论文荣获福建省优秀博士学位论文和福建农林大学优秀博士学位论文。目前主持国家自然基金面上、青年等科研项目5项。荣获福建省自然科学奖二等奖一项（排名第二）。参编《生物化学》教材一部。授权专利4项。

主要研究方向

1. 植物生殖发育；

2. 植物表观遗传。

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发表论文（#共同第一作者，*通讯作者）

1. **Cai Hanyang** (#), Liu Liping (#), Huang Youmei, Zhu Wenhui, Qi Jingang, Xi Xinpeng, Mohammad Aslam, Thomas Dresselhaus, and Qin Yuan (*). (2022). Brassinosteroid signaling regulates female germline specification in Arabidopsis. Current biology: CB, 32(5), 1102–1114.e5. (IF=10.9, 大类一区)

2. **Cai Hanyang**, Liu Liping, Zhang Man, Chai Mengnan, Huang Youmei, Chen Fangqian, Yan Maokai, Su Zhenxia, Ian Henderson, Ravishankar Palanivelu, Chen Xuemei, and Qin Yuan (*). (2021). Spatiotemporal control of miR398 biogenesis via chromatin remodeling and kinase signaling ensures proper ovule development. The Plant cell.doi:10.1093/plcell/koab056 (IF=12.1,大类一区)

3. **Cai Hanyang** (#), Huang Youmei (#), Chen Fangqian (#), Liu Liping (#), Chai Mengnan, Zhang Man, Yan Maokai, Aslam Mohammad, He Qing, and Qin Yuan (*). (2021). ERECTA signaling regulates plant immune responses via chromatin-mediated promotion of WRKY33 binding to target genes. New phytologist.doi:10.1111/nph.17200 (IF=10.3,大类一区)

4. **Cai Hanyang**, Chai Mengnan, Chen Fangqian, Huang Youmei, Zhang Man, He Qing, Liu Liping, Yan Maokai, and Qin Yuan (*). (2021). HBI1 acts downstream of ERECTA and SWR1 in regulating inflorescence architecture through the activation of the brassinosteroid and auxin signaling pathways. New phytologist 229, 414-428.doi:10.1111/nph.16840 (IF=10.3,大类一区)

5. **Cai Hanyang** (#), Zhang Man (#), Chai Mengnan, He Qing, Huang Xinyu, Zhao Lihua, Qin Yuan (*). (2019). Epigenetic regulation of anthocyanin biosynthesis by an antagonistic interaction between H2A.Z and H3K4me3. New phytologist ,221(1):295-308. (IF=8.5,大类一区)

6. **Cai, Hanyang** (#), Zhao, Lihua (#), Wang, Lulu, Zhang, Man, Su, Zhenxia, Cheng, Yan, Zhao, Heming, and Qin, Yuan (*). (2017). ERECTA signaling controls Arabidopsis inflorescence architecture through chromatin-mediated activation of PRE1 expression. New phytologist 214, 1579-1596.'doi:'10.1111/nph.14521. (IF=7.433,大类一区)

7. Zhao, Lihua (#), **Cai, Hanyang** (#), Su, Zhenxia (#), Wang, Lulu, Huang, Xinyu, Zhang, Man, Chen, Piaojuan, Dai, Xiaozhuan, Zhao, Heming, Palanivelu, Ravishankar, Chen, Xuemei (*), and Qin, Yuan (*). (2018). KLU suppresses megasporocyte cell fate through SWR1-mediated activation of WRKY28 expression in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America.'doi:'10.1073/pnas.1716054115. (IF=9.504,大类一区)

8. Liu Liping (#), Chai Mengnan (#), Huang Youmei (#), Qi Jingang, Zhu Wenhui, Xi Xinpeng, Chen Fangqian, Qin Yuan and **Cai Hanyang** (*). (2021). SDG2 regulates Arabidopsis inflorescence architecture through SWR1-ERECTA signaling pathway. iScience 24, 103236. (IF=5.5,大类二区)

9. Wang Lulu, Liu Yanhui, Mohammad Aslam, Bello Hassan Jakada, Qin Yuan (*) and **Cai Hanyang** (*). (2021). The Glycine-Rich Domain Protein GRDP2 Regulates Ovule Development via the Auxin Pathway in Arabidopsis. Frontiers in plant science, 12, 698487. (IF=5.7,大类二区)

10. Huang Youmei, Chen Fangqian, Chai Mengnan, Xi Xinpeng, Zhu Wenhui, Qi Jingang, Liu Kaichuang, Ma Suzhuo, Su Han, Tian Yaru, Zhang Huiying, Qin Yuan and **Cai Hanyang** (*). (2022). Ectopic Overexpression of Pineapple Transcription Factor AcWRKY31 Reduces Drought and Salt Tolerance in Rice and Arabidopsis. International journal of molecular sciences, 23(11), 6269. (IF=6.2,大类二区)

11. Zhang Man, Liu Yanhui, Li Zixian, She Zeyuan, Chai Mengnan, Mohammad Aslam, He Qing, Huang Youmei, Chen Fangqian, Chen Huihuang, Song Shikui, Wang Bingrui (*), **Cai Hanyang** (*) and Qin Yuan (*). (2021). The bZIP transcription factor GmbZIP15 facilitates resistance against Sclerotinia sclerotiorum and Phytophthora sojae infection in soybean. iScience 24, 10264. (IF=5.5,大类二区)

12. **Cai, Hanyang** (#), Yang, Sheng (#), Yan, Yan, Xiao, Zhuoli, Cheng, Junbin, Wu, Ji, Qiu, Ailian, Lai, Yan, Mou, Shaoliang, Guan, Deyi, Huang, Ronghua, and He, Shuilin (*). (2015). CaWRKY6 transcriptionally activates CaWRKY40, regulates Ralstonia solanacearum resistance, and confers high-temperature and high-humidity tolerance in pepper. Journal of experimental botany 66, 3163-3174.'doi:'10.1093/jxb/erv125. (IF=5.677,大类二区，小类一区)

13. **Cai, Hanyang** (#)，Cheng, Junbin (#)，Yan, Yan (#)，Xiao, Zhuoli，Li, Jiazhi，Mou, Shaoliang，Qiu, Ailian，Lai, Yan，Guan, Deyi，He, Shuilin (*). (2015).Genome-wide identification and expression analysis of calcium-dependent protein kinase and its closely related kinase genes in Capsicum annuum，Frontiers in plant science，2015.9.15，6 (737). (IF=4.495,大类二区)

14. Zhang Man (#), Liu Yanhui (#), He Qing, Chai Mengnan, Huang Youmei, Chen Fangqian, Wang Xiaomei, Liu Yeqiang, **Cai Hanyang** (*) and Qin Yuan (*). (2020). Genome-wide investigation of calcium-dependent protein kinase gene family in pineapple: evolution and expression profiles during development and stress. BMC Genomics, (2020) 21:72, https://doi.org/10.1186/s12864-020-6501-8. (IF=3.730,大类二区)

15. Zhang, Man (#), Liu, Yanhui (#), Shi, Hang, Guo, Mingliang, Chai, Mengnan, He, Qing, Cao Du, Zhao Lihua, **Cai, Hanyang** (*) and Yuan Qin (*). (2018). Evolutionary and expression analyses of soybean basic Leucine zipper transcription factor family. BMC Genomics, 19, 159.http://doi.org/10.1186/s12864-018-4511-6. (IF=3.730,大类二区)

16. Wang Lulu, Liu Yanhui, Chai Mengnan, Chen Huihuang, Mohammad Aslam, Niu Xiaoping, Qin Yuan (*) and **Cai Hanyang** (*). (2021). Genome-wide identification, classification, and expression analysis of the HSF gene family in pineapple (Ananas comosus). PeerJ, DOI 10.7717/peerj.11329. (IF=2.9,大类三区)

17. Chai Mengnan (#), Cheng Han (#), Yan Maokai, S. V. G. N. Priyadarshani, Zhang Man, He Qing, Huang Youmei, Chen Fangqian, Liu Liping, Huang Xiaoyi, Lai Linyi, Chen Huihuang, **Cai Hanyang** (*), Qin Yuan (*). (2020). Identification and expression analysis of DREB transcription factor family in Pineapple (Ananascomosus (L.) Merr.). (PeerJ, IF=2.9,大类三区)

18. Huang Youmei (#), Liu Yanhui (#), Zhang Man, Chai Mengnan, He Qing, Bello Hassan Jakada, Chen Fangqian, Chen Huihuang, Jin Xingyue, **Cai Hanyang** (*) and Qin Yuan (*). (2020). Genome-wide identification and expression analysis of the ERF transcription factor family in pineapple (Ananas comosus (L.) Merr.). (PeerJ, IF=2.9,大类三区)

19. **Cai, Hanyang**., Zhang, Man., Liu, Yanhui., He, Qing., Chai, Mengnan., Liu, Liping., Fangqian Chen, Youmei Huang, Maokai Yan, Heming Zhao, Jerming Hu, Yuan Qin (*). (2019). Genome-Wide Classification and Evolutionary and Functional Analyses of the VQ Family. Tropical Plant Biology, 1-15. (IF=1.686,大类四区)

20. He Qing, Liu Yanhui, Zhang Man, Bai Mengyan, Priyadarshani, S V G N, Chai Mengnan, Chen Fangqian, Huang Youmei, Liu Liping, **Cai Hanyang** (*), Qin Yuan (*). (2019). Genome-Wide Identification and Expression Analysis of the NAC Transcription Factor Family in Pineapple. Tropical Plant Biology. (IF=1.686,大类四区)

21. 黄幼梅,柴梦楠,席鑫鹏,朱文辉,齐金岗,秦源,**蔡汉阳**(*).拟南芥EPF/EPFL基因对核盘菌抗性的功能分析[J].福建农林大学学报(自然科学版),2022,51(04):486-492.

22. **蔡汉阳**,肖卓丽,严雁,官德义,何水林,吴杨. 辣椒CaERF4的全长cDNA克隆及其表达分析[J]. 热带作物学报,2014,06:1102-1107.

主持科研项目

1. 国家自然科学基金面上项目《拟南芥SWR1-KLU-PREs模块调控大孢子母细胞发生的机理研究 (32170352)》。2022.1-2025.12。主持，在研

2. 国家自然科学基金青年项目《SWR1-ERECTA-MIR398模块调控拟南芥珠被发育的机理研究 (31700279)》。2018.1-2020.12。主持，已结题

3. 福建省杰出青年基金项目《KLU-PREs信号途径通过表观修饰调控大孢子母细胞发生的机制研究》。2022.1-2024.12。主持，在研

4. 福建农林大学校杰出青年基金项目《拟南芥WRKY23调控大孢子母细胞特化的分子机制研究》。2022.1-2024.12。主持，在研

5. 福建农林大学生命科学学院青年创新人才项目《拟南芥类受体蛋白激酶RLK36A和RLK36H调控雌配子体发育的机制研究》。2022.1-2023.12。主持，在研

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