姜博晨

上海交通大学长聘教轨副教授

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出生年月: 1991 年 2 月

教育经历:

2010.09-2014.07　安徽农业大学 农学学士

2014.09-2019.06　中国农业大学 植物学博士 (导师: 杨淑华教授)

工作经历:

2019.07-2022.10　加州大学洛杉矶分校博士后 (导师: 林辰涛教授)

2022.10-2024.07　芝加哥大学博士后 (导师: 何川教授)

2024.07-至今　上海交通大学长聘教轨副教授

研究方向:

上海交通大学生命科学技术学院长聘教轨副教授，博士生导师，入选 2023 年海外高层次人才计划。2019 年获得中国农业大学博士学位；2019 年至 2024 年分别在加州大学洛杉矶分校和芝加哥大学从事博士后研究；2024 年 7 月起担任上海交通大学长聘教轨副教授。姜博晨博士长期从事环境信号光温互作及 RNA 表观修饰在植物生长发育和逆境响应中的调控机制研究，以拟南芥、大豆和玉米等为研究对象，研究光与温度信号对植物产量的影响。近年来研究成果以第一作者或通讯作者（含共同）发表在 Nature Plants（两篇）、Science Advances、Molecular Plant、PNAS 和 New Phytologist 等期刊，其中四篇入选 ESI 高被引论文，并被 Nature Plants、Trends in Plant Science 和 Faculty Opinion 等专评 7 次，2024 年 New Phytologist Tansley Medal 亚军 (runner up); 担任 The innovation 青年编委，Plant Communications; Plant, Cell & Environment; Horticulture Research; Plant Science; Plant cell reports; BMC plant biology; Frontiers in Plant Science; Journal of Plant Physiology 等学术期刊审稿人。

发表文章及专利（[#]同等贡献和 *通讯作者）:

Jiang, B. [#] *, Zhong Z.[#], Gu, L.[#], Zhang X., Wei, J., Ye, C., Lin, G., Qu, G., Xiang, X., Chen, W., Hummel, M., Bailey-Serres, J., He C., Wang X.* and Lin, C.* (2023). Light-induced LLPS of the CRY2/SPA1/FIO1 complex regulating mRNA methylation and chlorophyll homeostasis in *Arabidopsis*. ***Nature Plants*** 9, 2042–2058 (Invited with Research Briefing)

Jiang, B. and Lin, C. Light-induced protein condensation regulates chlorophyll homeostasis (2023). ***Nature Plants*** 9, 1952–1953 (Research Briefing)

Jiang, B.[#] *, Zhong, Z. [#], Su, J. [#], Zhu, T., Yueh, T., Bragasin, J., Bu, V., Zhou, C., Lin, C., and Wang, X*. (2023). Co-condensation with photoexcited cryptochromes facilitates MAC3A to positively control hypocotyl growth in Arabidopsis. ***Science Advances*** 9, eadh4048.

Jiang B. Light-induced cryptochrome 2 liquid–liquid phase separation and mRNA methylation (2024). ***New Phytologist* 244**, 6, 2163-2169. (Invited Tansley insight)

Wang, X.[#], **Jiang, B.[#]**, Gu, L.[#], Chen, Y., Mora, M., Zhu, M., Noory, E., Wang, Q*., and Lin C.* (2021). A photoregulatory mechanism of the circadian clock in *Arabidopsis*. ***Nature Plants*** 7, 1397–1408 (2021). (**Cover story** and Highlighted with a News & Views in *Nature Plants*) (**Highly cited and hot paper**, recommended by *Faculty opinions*)

Jiang, B.[#], Shi, Y.[#], Peng, Y., Jia, Y., Yan, Y., Dong, X., Li, H., Dong, J., Li, J., Gong, Z., and Yang, S.* (2020). Cold-induced CBF-PIF3 interaction enhances freezing tolerance by stabilizing the phyB thermosensor in *Arabidopsis*. ***Molecular Plant*** 13, 894-906. (Highlighted with a Spotlight article in *Trends in Plant Science*) (**Highly cited paper**)

Jiang, B.[#], Shi, Y.[#], Zhang, X., Xin, X., Qi, L., Guo, H., Li, J.*, and Yang, S.* (2017). PIF3 is a negative regulator of the CBF pathway and freezing tolerance in *Arabidopsis*. ***Proc. Natl. Acad. Sci. USA*** 114, E6695-E6702. (Highlighted with a News & Views in *Nature Plants* and a Spotlight article in *Trends in Plant Science*) (**Highly cited paper**)

Qu G., **Jiang, B**., and Lin, C.* The dual-action mechanism of *Arabidopsis* cryptochromes. (2023). ***Journal of Integrative Plant Biology*** *66(5): 883-896.*

Y. Peng, Y. Ming, **B. Jiang**, X. Zhang, D. Fu, Q. Lin, et al. (2024) ***The Plant Cell*** DOI: 10.1093/plcell/koae177

Wang G, Li H, Ye C, He K, Liu S, **Jiang B.**, Ge R, Gao B, Wei J, Zhao Y, et al. (2024) Quantitative profiling of m(6)A at single base resolution across the life cycle of rice and Arabidopsis. ***Nat Communications*** 15(1): 4881.

Zhang, L.*, Ju, C., **Jiang, B.**, and He, C. (2023). Base-resolution quantitative DAMM-seq for mapping RNA methylations in tRNA and mitochondrial polycistronic RNA. Enzymes in RNA Science and Biotechnology: Part B, pp. 39-54. 10.1016/bs.mie.2023.08.001.（**Book chapter**）

Dong, X., Yan, Y., **Jiang, B**., Shi, Y., Jia, Y., Cheng, J., Shi, Y., Kang, J., Li, H., Zhang, D*., et al.* (2020). The cold response regulator CBF1 promotes Arabidopsis hypocotyl growth at ambient temperatures. ***EMBO Journal.*** *39*, e103630.

Yan, Y., Li, C., Dong, X.J., Li, H., Zhang, D., Zhou, Y.Y., **Jiang, B**.**C.**, Peng, J., Qin, X.Y., Cheng, J.K., et al. (2020). MYB30 is a key negative regulator of Arabidopsis photomorphogenic development that promotes PIF4 and PIF5 protein accumulation in the Light. ***Plant Cell*** 32, 2196-2215.

CN108624567A_植物 EBF1 蛋白及其编码基因在构建耐低温植物中的应用， 发明人：杨淑华; 施怡婷; **姜博晨**; 张晓燕; 郭红卫

CN108623664A_植物 EBF2 蛋白及其编码基因在构建耐低温植物中的应用，发明人：杨淑华; 施怡婷; **姜博晨**; 张晓燕; 郭红卫

获奖情况

2024 New Phytologist Tansley Medal (已入围和Tansley insight邀请)

2019 北京市优秀研究生

2018 中国农业大学一等博士奖学金

2017 研究生国家奖学金

2017 中国农业大学校长奖学金

2017 先正达奖学金

2014 安徽省优秀毕业生

期刊审稿人

Plant Communications; Plant, Cell & Environment; Horticulture Research; Plant Science; Plant cell reports; BMC plant biology; Frontiers in Plant Science; Journal of Plant Physiology; Guest editor for Frontiers in Genome Editing