

## Lecturer FAN Xiaolei

College	College of Agriculture
Current Position	Lecturer
Types of Tutor	Master Tutor
Language	Chinese/English
Education	2002-2006, Huazhong Agriculture University, biological engineering, master; 2006-2015, Huazhong Agriculture University, Genetics, ph.D.
Research Interests	Research on the molecular mechanism of rice quality formation in response to abiotic stress and molecular design breeding
Selected Publications	(1) Fan Xiaolei; Li Yingqiu; Lu Yan; Zhang Changquan; Li Enpeng; Li Qianfeng; Tao Keyu; Yu Wenwen; Wang Jingdong; Chen Zhuanzhuan; Zhu Yun; Liu Qiaoquan*; The interaction between amylose and amylopectin synthesis in rice endosperm grown at high temperature, Food Chemistry, 2019, 301: 125258.  (2) Fan Xiaolei; Li Yingqiu; Zhang Changquan; Li Enpeng; Chen Zhuanzhuan;

Li Qianfeng; Zhang Zhongwei; Zhu Yun; Sun Xiaosong; Liu Qiaoquan\*; Effects of high temperature on the fine structure of starch during the grain-filling stages in rice: mathematical modeling and integrated enzymatic analysis , Journal of the Science of Food and Agriculture, 2019, 99(6): 2865-2873.

(3) Fan Xiaolei#; Li Yingqiu#; Zhu Yun; Wang Jingdong; Zhao Jie; Sun Xiaosong; Pan Yuntao; Bian Xinyue; Zhang Changquan; Zhao Dongsheng; Liu Qiaoquan\*; Characterization of physicochemical qualities and starch structures of two indica rice varieties tolerant to high temperature during grain filling, Journal of Cereal Science, 2020, 93: 102966.

(4) Fan Xiaolei; Wu Jiemin; Chen Taiyu; Tie Weiwei; Chen Hao; Zhou Fei; Lin Yongjun\*; Loss-of-function mutation of rice SLAC7 decreases chloroplast stability

	<p>and induces a photoprotection mechanism in rice, <i>Journal of Integrative Plant Biology</i>, 2015, 57(12): 1063-1077.</p> <p>(5) Zhang Changquan#; Zhu Jihui#; Chen Shengjie#; Fan Xiaolei; Li Qianfeng; Lu Yan; Wang Min; Yu Hengxiu; Yi Chuandeng; Tang Shuzhu; Gu Minghong; Liu Qiaoquan*; Wxlv, the ancestral allele of rice Waxy gene , <i>Molecular Plant</i>, 2019, 12(8): 1157-1166.</p> <p>(6) Chen Taiyu; Wu Huan; Wu Jiemin; Fan Xiaolei; Li Xianghua; *Lin Yongjun (2017) Absence of Os<math>\beta</math>CA1 causes CO<sub>2</sub> deficit and affects leaf photosynthesis and stomatal response to CO<sub>2</sub> in rice. <i>The Plant Journal</i> 90 (2): 344.</p>
Email	xlfan@yzu.edu.cn