

Assistant Researcher ZHU Guanglong

College	College of Agriculture
Current Position	Assistant Researcher
Types of Tutor	Master Tutor
Language	Chinese/English
Education	2012/09-2016/12, Huazhong Agriculture University, Ph.D.; 2014/11-2016/11, International Rice Research Institute, joint doctoral.
Research Interests	Crop cultivation and adversity physiology
Selected Publications	<p>[1] Zhu G*, Chen Y, Ella E S, Ismail A M*. Mechanisms associated with tiller suppression under stagnant flooding in rice. Journal of Agronomy and Crop Science, 2018. DOI: 10.1111/jac.12316.</p> <p>[2] Zhu G, Peng S, Huang J, Cui K, Nie L, Wang F*. Genetic improvements in rice yield and concomitant increases in radiation-and nitrogen-use efficiency in middle reaches of Yangtze River. Scientific reports, 2016, 6. 21049. doi: 10.1038/srep21049.</p> <p>[3] Guanglong Zhu, Guohui Li, Depeng Wang, Shen Yuan, Fei Wang*. Changes in the lodging-related traits along with rice genetic improvement in China. PLoS ONE, 2016, 11(7): e0160104.</p> <p>[4] Guanglong Zhu, Jie Yin, Xiurong Jiao, Guisheng Zhou* et al. Gibberellic acid amended antioxidant enzyme and osmotic regulation to improve salt tolerance of Okra at early growth stage. International</p>

	<p>Journal of Agriculture and Biology, 2019, 22: 270–276.</p> <p>[5] Guanglong Zhu, Linlin An, Guisheng Zhou* et al. Effects of gibberellic acid on water uptake and germination of sweet sorghum seeds under salinity stress. Chilean Journal of Agricultural Research, 2019,415-424.</p> <p>[6] Guanglong Zhu*†, Haitong Lu †, Xiaoxu Shi†, Yue Wang, Wenfang Zhi, Xubing Chen^{b,c}, Jiawei Liu, Zhen Ren, Yu Shi, Zhongya Jia, Xiurong Jiao, Muhi Eldeen Hussien Ibrahim, Nimir Eltyb Ahmed Nimir, Guisheng Zhou*. Nitrogen management enhanced plant growth, antioxidant ability and grain yield of rice under salinity stress. Agronomy Journal, 2019. Accepted.</p> <p>[7] Baoxiang Wang, … Dayong Xu*, Guanglong Zhu*. Variation of drought resistance of rice genotypes released in different ages in China. Journal of the science of food and agriculture, 2019, doi: 10.1002/jsfa.9678.</p> <p>[8] Adam Yousif Adam Ali, Muhi Eldeen Hussien Ibrahim, Guisheng Zhou,* Nimir Eltyb Ahmed Nimir, Xiurong Jiao, Guanglong Zhu,* Aboagla Mohammed Ibrahim Elsidig, Wenfang Zhi, Xubing Chen, and Haitong Lu. Ameliorative Effects of Jasmonic Acid and Humic Acid on Antioxidant Enzymes and Salt Tolerance of Forage Sorghum under Salinity Conditions. Agronomy Journal, 2019, 6(111): 1-10.</p>
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- [9] Irshad Ahmad, Guisheng Zhou*, **Guanglong Zhu***, Zahoor Ahmad, Xudong Song, Yousaf Jamal, Muhi Eldeen Hussien Ibrahim and Nimir Eltyb Ahmed Nimir. Response of Boll Development to Macronutrients Application in Dierent Cotton Genotypes. *Agronomy* 2019, 9, 322; doi:10.3390/agronomy9060322.
- [10] Xiaoqian Guo, **Guanglong Zhu**, Xiurong Jiao, Guisheng Zhou*. Effects of nitrogen application and planting density on growth and yield of Sesbania pea grown in saline soil. *Current science*, 2019, 116(5): 758-764.
- [11] Chengyu Song, **Guanglong Zhu**, Xiurong Jiao, Guisheng Zhou*. Effects of paclobutrazol on dry matter accumulation and grain filling of castor bean. *American Journal of Biological and Environmental Statistics*. Vol. 4, No. 3, 2018, pp. 83-90. doi: 10.11648/j.ajbes.20180403.11
- [12] Tabassum M A, **Zhu G**, Hafeez A, Wahid M A, Shaban M, Li Y*. Influence of leaf vein density and thickness on hydraulic conductance and photosynthesis in rice (*Oryza sativa* L.) during water stress. *Scientific Reports*, 2016, 6: 36894.
- [13] Wu L, Shen Y, Huang L, Fan S, **Zhu G**, Li G, Shah F, Peng S, Fei Wang*. Physiological Mechanisms Underlying the High-Grain Yield and High-Nitrogen Use Efficiency of Elite Rice Varieties under a Low Rate of Nitrogen Application in China. *Frontiers in Plant Science*, 2016, 7(7): 1024. doi:

	<p>10.3389/fpls.2016.01024.</p> <p>Xudong Song, Guisheng Zhou*, Bao-Luo Ma*, Wei Wu, Irshad Ahmad, Guanglong Zhu, Weikai Yan, Xiurong Jiao. Nitrogen Application Improved Photosynthetic Productivity, Chlorophyll Fluorescence, Yield and Yield Components of Two Oat Genotypes under Saline Conditions. <i>Agronomy</i> 2019, 9(115), doi:10.3390/agronomy9030115.</p>
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