Title: Seed osmopriming invokes stress memory against post-germinative drought stress in wheat (*Triticum aestivum* L.)

Authors: Muhammad Abid, Abdul Hakeem, Yuhang Shao, Yang Liu, Rizwan Zahoor, Yonghui Fan, Jiang Suyu, Syed Tahir Ata-Ul-Karim, Zhongwei Tian, Dong Jiang, John L. Snider, Tingbo Dai

PII: S0098-8472(17)30239-3
DOI: https://doi.org/10.1016/j.envexpbot.2017.10.002
Reference: EEB 3299

To appear in: *Environmental and Experimental Botany*

Received date: 30-7-2017
Revised date: 22-9-2017
Accepted date: 1-10-2017

Please cite this article as: Abid, Muhammad, Hakeem, Abdul, Shao, Yuhang, Liu, Yang, Zahoor, Rizwan, Fan, Yonghui, Suyu, Jiang, Ata-Ul-Karim, Syed Tahir, Tian, Zhongwei, Jiang, Dong, Snider, John L., Dai, Tingbo, Seed osmopriming invokes stress memory against post-germinative drought stress in wheat (Triticum aestivum L.).Environmental and Experimental Botany https://doi.org/10.1016/j.envexpbot.2017.10.002

Title: Seed osmopriming invokes stress memory against post-germinative drought stress in wheat (*Triticum aestivum* L.)

Names of authors: Muhammad Abid[1, 2], Abdul Hakeem[1], Yuhang Shao[1], Yang Liu[1], Rizwan Zahoor[1], Yonghui Fan[3], Jiang Suyu[4], Syed Tahir Ata-Ul-Karim[1], Zhongwei Tian[1], Dong Jiang[1], John L. Snider[5], Tingbo Dai[1,*]

Institution, address, zips code, and nation:

1: Key Laboratory of Crop Physiology, Ecology and Production Management, Nanjing Agricultural University, Nanjing 210095, Jiangsu Province, 210095, P. R. China

2: Department of Soil Conservation, Soon Valley, Khushab 41000, Punjab, Pakistan

3: School of Agronomy, Anhui Agricultural University, Hefei 230036, Anhui, China

4: Department of Plant Biology, Cornell University, Ithaca, New York 14853, USA

5: Department of Crop and Soil Sciences, University of Georgia, Tifton, Georgia 31794, USA

Corresponding author: Tingbo Dai

Tel: +86 025 84396466 e-mail: tingbod@njau.edu.cn

Highlight

- Seed priming enhances wheat potential to tolerate post-germinative drought stress
- Priming sustains photosynthetic efficiency in wheat under drought