

Accepted Manuscript

Low arsenate influx rate and high phosphorus concentration in wheat (*Triticum aestivum* L.): A mechanism for arsenate tolerance in wheat plants

Gaoling Shi, Hongxiang Ma, Yinglong Chen, Huan Liu, Guicheng Song, Qingsheng Cai, Laiqing Lou, Zed Rengel



PII: S0045-6535(18)31745-4

DOI: [10.1016/j.chemosphere.2018.09.090](https://doi.org/10.1016/j.chemosphere.2018.09.090)

Reference: CHEM 22170

To appear in: *ECSN*

Received Date: 19 June 2018

Revised Date: 4 September 2018

Accepted Date: 16 September 2018

Please cite this article as: Shi, G., Ma, H., Chen, Y., Liu, H., Song, G., Cai, Q., Lou, L., Rengel, Z., Low arsenate influx rate and high phosphorus concentration in wheat (*Triticum aestivum* L.): A mechanism for arsenate tolerance in wheat plants, *Chemosphere* (2018), doi: <https://doi.org/10.1016/j.chemosphere.2018.09.090>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Low arsenate influx rate and high phosphorus concentration in wheat (*Triticum aestivum* L.): A mechanism for arsenate tolerance in wheat plants

Gaoling Shi^{a,b,c}, Hongxiang Ma^a, Yinglong Chen^{c,d}, Huan Liu^b, Guicheng Song^a, Qingsheng Cai^b,
Laiqing Lou^{b,*}, Zed Rengel^c

^a Provincial Key Laboratory of Agrobiotechnology, Institute of Food Crops, Jiangsu Academy of Agricultural Sciences, Nanjing, 210014, P.R. China.

^b College of Life Sciences, Nanjing Agricultural University, Nanjing, 210095, P.R. China.

^c The UWA Institute of Agriculture, and UWA School of Agriculture and Environment, The University of Western Australia, Perth, WA 6009, Australia .

^d Institute of Soil and Water Conservation, Northwest A&F University, and Chinese Academy of Sciences, Yangling, Shaanxi, 712100, P.R. China.

Corresponding author: Laiqing Lou

Address: College of Life Sciences, Nanjing Agricultural University, 1 Weigang, Nanjing, 210095, P.R. China.

Tel/Fax: (+86)-25-84395187

Email: loulq@njau.edu.cn

* Corresponding author.

Email address: loulq@njau.edu.cn (L.Q. Lou); shigaoling@jaas.ac.cn (G.L. Shi).

Download English Version:

<https://daneshyari.com/en/article/10223387>

Download Persian Version:

<https://daneshyari.com/article/10223387>

[Daneshyari.com](https://daneshyari.com)