

Accepted Manuscript

Nitric oxide regulates chlorophyllide biosynthesis and singlet oxygen generation differently between Arabidopsis and barley

Zhong-Wei Zhang, Meng-Xia Li, Bo Huang, Ling-Yang Feng, Fan Wu, Yu-Fan Fu, Xiao-Jian Zheng, Hong-Qian Peng, Yang-Er Chen, Hai-Ning Yang, Lin-Tao Wu, Ming Yuan, Shu Yuan

PII: S1089-8603(17)30313-0

DOI: [10.1016/j.niox.2018.03.001](https://doi.org/10.1016/j.niox.2018.03.001)

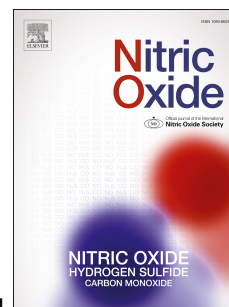
Reference: YNIOX 1754

To appear in: *Nitric Oxide*

Received Date: 13 November 2017

Revised Date: 30 January 2018

Accepted Date: 1 March 2018



Please cite this article as: Z.-W. Zhang, M.-X. Li, B. Huang, L.-Y. Feng, F. Wu, Y.-F. Fu, X.-J. Zheng, H.-Q. Peng, Y.-E. Chen, H.-N. Yang, L.-T. Wu, M. Yuan, S. Yuan, Nitric oxide regulates chlorophyllide biosynthesis and singlet oxygen generation differently between Arabidopsis and barley, *Nitric Oxide* (2018), doi: 10.1016/j.niox.2018.03.001.

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.

Nitric oxide regulates chlorophyllide biosynthesis and singlet oxygen generation differently between Arabidopsis and barley

Zhong-Wei Zhang ^{a,†}, Meng-Xia Li ^{a,†}, Bo Huang ^{b,†}, Ling-Yang Feng ^a, Fan Wu ^c, Yu-Fan Fu ^a, Xiao-Jian Zheng ^a, Hong-Qian Peng ^a, Yang-Er Chen ^b, Hai-Ning Yang ^d, Lin-Tao Wu ^e, Ming Yuan ^{b,*}, Shu Yuan ^{a,*}

^a College of Resources, Sichuan Agricultural University, Chengdu 611130, China

^b College of Life Sciences, Sichuan Agricultural University, Ya'an 625014, China

^c Sichuan Provincial Academy of Natural Resource Sciences, Chengdu 610015, China

^d Nanchong Academy of Agricultural Sciences, Nanchong 637000, China

^e Rape Research Institute, Guizhou Academy of Agricultural Sciences, Guiyang 550008, China

[†]These authors contributed equally to this work.

*Corresponding authors.

E-mail addresses: yuanmingsicau@126.com (M. Yuan), roundtree318@hotmail.com (S. Yuan).

Abbreviations: ALA, 5-aminolevulinic acid; Chl, chlorophyll; Chlide, chlorophyllide; Cys, cysteine; DAB, 3,3-diaminobenzidine; DTT, 1,4-dithiothreitol; EX, EXECUTER; FLU, FLUORESCENT; GluBP, glutamyl-tRNA reductase binding protein; HEMA, glutamyl-tRNA reductase; Mg-proto IX, Mg-protoporphyrin IX; NBT, nitro blue tetrazolium; NEM, N-ethylmaleimide; NO, Nitric oxide; NOA1, Nitric Oxide Associated 1; NOS, Nitric oxide synthase; PBG, Porphobilinogen; Pchlide,

Download English Version:

<https://daneshyari.com/en/article/8344556>

Download Persian Version:

<https://daneshyari.com/article/8344556>

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