

Accepted Manuscript

Title: Synchronous overexpression of glutathione-S-transferase and cyanidase nullnullmaintains the redox homeostasis nulland improves cyanide remediation capacity in tobacco

Authors: Rashad Kebeish, Yassin El-Ayouty, Ayman El-Naggar, Ahmed M. Saleh



PII: S0098-8472(17)30051-5
DOI: <http://dx.doi.org/doi:10.1016/j.envexpbot.2017.02.015>
Reference: EEB 3194

To appear in: *Environmental and Experimental Botany*

Received date: 17-11-2016
Revised date: 23-2-2017
Accepted date: 23-2-2017

Please cite this article as: Kebeish, Rashad, El-Ayouty, Yassin, El-Naggar, Ayman, Saleh, Ahmed M., Synchronous overexpression of glutathione-S-transferase and cyanidase maintains the redox homeostasis and improves cyanide remediation capacity in tobacco. *Environmental and Experimental Botany* <http://dx.doi.org/10.1016/j.envexpbot.2017.02.015>

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.

Title page**Synchronous overexpression of glutathione-S-transferase and cyanidase maintains the redox homeostasis and improves cyanide remediation capacity in tobacco****Running title:**

"Enhanced cyanide remediation capacity in tobacco; a transgenic approach"

Rashad Kebeish^{1,2}, Yassin El-Ayouty¹, Ayman El-Naggar¹ and Ahmed M. Saleh^{2,3,*}

¹Plant Biotechnology Laboratory (PBL), Botany and Microbiology Department, Faculty of Science, Zagazig University, El gamaast 1, 44519 Zagazig, Sharkia, Egypt.

²Biology Department, Faculty of Science Yanbu, Taibah University, , King Khalid Rd, Al amoedi, 46423 Yanbu El-Bahr-Saudi Arabia.

³Botany and Microbiology Department, Faculty of Science, Cairo University, Giza 12613, Egypt.

*Corresponding Author:

Dr. Ahmed M. Saleh, Ph.D

³Botany and Microbiology Department, Faculty of Science, Cairo University, El gamaa st, 12613 Giza, Egypt.

Tel: +966 541 161 474, Email: asaleh@sci.cu.edu.eg; amsmohamed@taibahu.edu.sa

Authors address and affiliations:

1- Dr. Rashad Kebeish, Ph.D

Download English Version:

<https://daneshyari.com/en/article/5766634>

Download Persian Version:

<https://daneshyari.com/article/5766634>

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