## Accepted Manuscript

Title: Interaction of triacontanol and arsenic on the ascorbate-glutathione cycle and their effects on the ultrastructure in *Coriandrum sativum* L.

Author: Elham Asadi karam Batool Keramat Sergio Sorbo Viviana Maresca Zahra Asrar Hossein Mozafari Adriana

Basile

PII: S0098-8472(17)30166-1

DOI: http://dx.doi.org/doi:10.1016/j.envexpbot.2017.07.012

Reference: EEB 3265

To appear in: Environmental and Experimental Botany

Received date: 21-4-2017 Revised date: 14-7-2017 Accepted date: 14-7-2017

Please cite this article as: Asadi karam, E., Keramat, B., Sorbo, S., Maresca, V., Asrar, Z., Mozafari, H., Basile, A.,Interaction of triacontanol and arsenic on the ascorbate-glutathione cycle and their effects on the ultrastructure in *Coriandrum sativum* L., *Environmental and Experimental Botany* (2017), http://dx.doi.org/10.1016/j.envexpbot.2017.07.012

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.



## ACCEPTED MANUSCRIPT

- TRIA exerted its role against the toxicity of sodium arsenate in coriander (Coriandrum sativum L.).
- -The activities of antioxidant enzymes, including ascorbate peroxidase (APX), glutathione reductase (GR), monodehydroascorbate reductase (MDHAR), dehydroascorbate reductase (DHAR) and glutathione-S-transferase (GST), were measured.
- -The contents of ascorbate (ASC), dehydroascorbate (DHA), reduced glutathione (GSH) and some nutrients accumulation analysis were determined.
- Transmission electron microscopy (TEM) observations showed that TRIA is able to protect cells, most of all chloroplasts, from As-induced damage.

## Download English Version:

## https://daneshyari.com/en/article/5766594

Download Persian Version:

https://daneshyari.com/article/5766594

<u>Daneshyari.com</u>