

Accepted Manuscript

Title: *Oryza sativa* class III peroxidase (*OsPRX38*) overexpression in *Arabidopsis thaliana* reduces arsenic accumulation due to apoplastic lignification

Authors: Maria Kidwai, Yogeshwar Vikram Dhar, Neelam Gautam, Madhu Tiwari, Iffat Zareen Ahmad, Mehar Hasan Asif, Debasis Chakrabarty



PII: S0304-3894(18)30824-0
DOI: <https://doi.org/10.1016/j.jhazmat.2018.09.029>
Reference: HAZMAT 19753

To appear in: *Journal of Hazardous Materials*

Received date: 5-7-2018
Revised date: 7-9-2018
Accepted date: 9-9-2018

Please cite this article as: Kidwai M, Dhar YV, Gautam N, Tiwari M, Ahmad IZ, Asif MH, Chakrabarty D, *Oryza sativa* class III peroxidase (*OsPRX38*) overexpression in *Arabidopsis thaliana* reduces arsenic accumulation due to apoplastic lignification, *Journal of Hazardous Materials* (2018), <https://doi.org/10.1016/j.jhazmat.2018.09.029>

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.

***Oryza sativa* class III peroxidase (*OsPRX38*) overexpression in *Arabidopsis thaliana*
reduces arsenic accumulation due to apoplastic lignification**

Maria Kidwai^{1,2}, Yogeshwar Vikram Dhar^{1,3}, Neelam Gautam^{1,3}, Madhu Tiwari¹, Iffat Zareen Ahmad², Mehar Hasan Asif^{1,3}, and Debasis Chakrabarty^{1,3*}

¹*CSIR-National Botanical Research Institute, Lucknow, Uttar Pradesh, India*

²*Integral University, Kursi road, Lucknow- Uttar Pradesh, India*

³*Academy of Scientific and Innovative Research, New Delhi, India*

***Corresponding author**

Dr. Debasis Chakrabarty

Molecular Biology and Biotechnology Division

CSIR-National Botanical Research Institute

Rana Pratap Marg, Lucknow-226001 (Uttar Pradesh, India)

Ph. +91-9451245572

Email id: debasis1972@rediffmail.com

Graphical abstract

Download English Version:

<https://daneshyari.com/en/article/11028010>

Download Persian Version:

<https://daneshyari.com/article/11028010>

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