



## OPEN ACCESS

APPROVED BY  
Frontiers Editorial Office,  
Frontiers Media SA, Switzerland

## \*CORRESPONDENCE

Rabia Amir

✉ [rabia@asab.nust.edu.pk](mailto:rabia@asab.nust.edu.pk)

RECEIVED 12 May 2025

ACCEPTED 13 May 2025

PUBLISHED 30 May 2025

## CITATION

Hira Q-u-AA, Mahboob M, Azhar R, Munir F, Gul A, Hayat A, Shah T and Amir R (2025) Corrigendum: An integrated remediation approach using combinations of biochar, *Rhizobium leguminosarum*, and *Vigna radiata* for immobilizing and dissipating cadmium contaminants from the soil–mustard plant system. *Front. Plant Sci.* 16:1627427. doi: 10.3389/fpls.2025.1627427

## COPYRIGHT

© 2025 Hira, Mahboob, Azhar, Munir, Gul, Hayat, Shah and Amir. This is an open-access article distributed under the terms of the [Creative Commons Attribution License \(CC BY\)](https://creativecommons.org/licenses/by/4.0/). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

# Corrigendum: An integrated remediation approach using combinations of biochar, *Rhizobium leguminosarum*, and *Vigna radiata* for immobilizing and dissipating cadmium contaminants from the soil–mustard plant system

Qurat-ul-Ain Ali Hira<sup>1</sup>, Midhat Mahboob<sup>1</sup>, Rimsha Azhar<sup>1</sup>, Faiza Munir<sup>1</sup>, Alvina Gul<sup>1</sup>, Asim Hayat<sup>2</sup>, Tariq Shah<sup>3</sup> and Rabia Amir<sup>1\*</sup>

<sup>1</sup>Department of Plant Biotechnology, Atta-ur-Rahman School of Applied Biosciences (ASAB), National University of Sciences and Technology (NUST), Islamabad, Pakistan, <sup>2</sup>Land Resource Research Institute, National Agricultural Research Center (NARC), Islamabad, Pakistan, <sup>3</sup>Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture, Peshawar, Pakistan

## KEYWORDS

cadmium remediation, mustard plant, phytoremediation, biochar, intercropping, plant growth-promoting rhizobacteria (PGPR)

## A Corrigendum on

[An integrated remediation approach using combinations of biochar, \*Rhizobium leguminosarum\*, and \*Vigna radiata\* for immobilizing and dissipating cadmium contaminants from the soil–mustard plant system](#)

by Hira Q-u-AA, Mahboob M, Azhar R, Munir F, Gul A, Hayat A, Shah T and Amir R (2023). *Front. Plant Sci.* 14:1139136. doi: 10.3389/fpls.2023.1139136

In the published article, there was an error in affiliation 3. Instead of “<sup>3</sup>Plant Science Research Unit, U.S. Department of Agriculture–Agricultural Research Service (USDA–ARS), Washington, DC, United States”, it should be “<sup>3</sup>Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture, Peshawar, Pakistan”.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

The U.S. Department of Agriculture has notified us that Tariq Shah was not and has never been an employee of the U.S. Department of Agriculture.

## Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated

organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.