



## OPEN ACCESS

APPROVED BY  
Frontiers Editorial Office,  
Frontiers Media SA, Switzerland

## \*CORRESPONDENCE

Zhao Song  
✉ songzhao@gdaas.cn  
Faisal Nadeem  
✉ fnadeem90@gmail.com;  
✉ faisal.ss@pu.edu.pk

RECEIVED 21 March 2024  
ACCEPTED 22 March 2024  
PUBLISHED 03 April 2024


## CITATION

Nisar MM, Mahmood R, Tayyab S, Anees M, Nadeem F, Bibi S, Waseem F, Ahmed N, Li J and Song Z (2024) Corrigendum: Comparative efficacy of non-electric cooling techniques to reduce nutrient solution temperature for the sustainable cultivation of summer vegetables in open-air hydroponics. *Front. Plant Sci.* 15:1404645. doi: 10.3389/fpls.2024.1404645

## COPYRIGHT

© 2024 Nisar, Mahmood, Tayyab, Anees, Nadeem, Bibi, Waseem, Ahmed, Li and Song. 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: Comparative efficacy of non-electric cooling techniques to reduce nutrient solution temperature for the sustainable cultivation of summer vegetables in open-air hydroponics

Muhammad Mohsin Nisar<sup>1,2</sup>, Rashid Mahmood<sup>3</sup>, Salman Tayyab<sup>2</sup>, Moazzam Anees<sup>2</sup>, Faisal Nadeem <sup>1,3\*</sup>, Sadia Bibi<sup>4</sup>, Faiza Waseem<sup>3</sup>, Nazir Ahmed<sup>5</sup>, Jing Li<sup>1</sup> and Zhao Song<sup>1\*</sup>

<sup>1</sup>Key Laboratory for New Technology Research of Vegetables, Vegetable Research Institute, Guangdong Academy of Agricultural Science, Guangzhou, China, <sup>2</sup>Department of Horticulture, University of the Punjab, Lahore, Pakistan, <sup>3</sup>Department of Soil Science, University of the Punjab, Lahore, Pakistan, <sup>4</sup>Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad, Faisalabad, Pakistan, <sup>5</sup>College of Horticulture and Landscape Architecture, Zhongkai University of Agriculture and Engineering, Guangzhou, Guangdong, China

## KEYWORDS

hydroponics, nutrient solution temperature, PVC grow pipes, jute fabric, open air system

## A Corrigendum on

Comparative efficacy of non-electric cooling techniques to reduce nutrient solution temperature for the sustainable cultivation of summer vegetables in open-air hydroponics

Nisar MM, Mahmood R, Tayyab S, Anees M, Nadeem F, Bibi S, Waseem F, Ahmed N, Li J and Song Z (2024). *Front. Plant Sci.* 15:1340641. doi: 10.3389/fpls.2024.1340641

## Additional Affiliation(s)

In the published article, there was an error regarding the affiliation(s) for “Muhammad Mohsin Nisar” and “Faisal Nadeem”. As well as having affiliation(s) “2” and “3” respectively they should also have “<sup>1</sup>Key Laboratory for New Technology Research of Vegetables, Vegetable Research Institute, Guangdong Academy of Agricultural Science, Guangzhou, China” as affiliation “1”.

As per above changes, the numbering of all author affiliations will be changed as mentioned above (correct version).

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.

**Incorrect Author Name**

In the published article, an author name was incorrectly written as “Song Zhao”. The correct spelling is “Zhao Song”.

The initials used in the Author contributions section should be “ZS” instead of “SZ”.

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.

**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.