

CORRECTION

Open Access



# Correction to: Biochemical response and nutrient uptake of two arbuscular mycorrhiza-inoculated chamomile varieties under different osmotic stresses

Fatemeh Ebrahimi<sup>1</sup>, Amin Salehi<sup>1\*</sup>, Mohsen Movahedi Dehnavi<sup>1</sup>, Amin Mirshekari<sup>1</sup>, Mohammad Hamidian<sup>1</sup> and Saeid Hazrati<sup>2</sup>

**Correction to: *Botanical Studies* (2021) 62:22**

<https://doi.org/10.1186/s40529-021-00328-3>

Following publication of the original article (Ebrahimi et al. 2021), errors were identified in Tables 1 and 4, The

data are reversed in Tables 1 and 4 and the right decimal place is moved to the left decimal place.

The correct tables are given below.

---

The original article can be found online at <https://doi.org/10.1186/s40529-021-00328-3>.

\*Correspondence: [aminsalehi@yu.ac.ir](mailto:aminsalehi@yu.ac.ir)

<sup>1</sup> Department of Agronomy and Plant Breeding, Faculty of Agriculture, Yasouj University, Yasouj, Iran

Full list of author information is available at the end of the article



© The Author(s) 2022. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

**Table 1** Analysis of variance of osmotic stress, arbuscular mycorrhiza and variety and their interactions effects on nutrients uptake in chamomile

Source of variation	df	Shoot concentration										Root concentration									
		N	P	K	Zn	Fe	Cu	Mn	N	P	K	Zn	Fe	Cu	Mn						
O	2	2114.47**	29.81**	1565.17**	65040.23**	13444.14**	2636.89**	3939.09**	164.26*	131.61**	29.66**	51988.02**	428.06**	4332.16**	2803.51**						
AM	1	181.96**	25.66**	208.29**	4504.68**	1906.38**	2813.66**	3236.61**	41.25**	26.8**	506.32*	3663.02 <sup>ns</sup>	453.25**	1328.25**	1652.08**						
Var	1	201.80*	5.32**	55.60**	500.52**	550.13**	338.66**	413.24*	1.28**	26.1**	606.16**	1518.65**	56.42**	109.50**	42.18**						
O × AM	2	13.38**	0.65**	0.04 <sup>ns</sup>	289.45**	43.88**	9.66 <sup>ns</sup>	26.66 <sup>ns</sup>	3.32**	0.66 <sup>ns</sup>	31.50**	25.52 <sup>ns</sup>	32.16**	4.03 <sup>ns</sup>	115.65**						
O × Var	2	54.56**	2.69**	22.20**	111.87*	129.06**	60.60 <sup>ns</sup>	196.69*	0.21 <sup>ns</sup>	3.69**	18.66**	465.00**	19.14**	22.68**	22.26**						
AM × Var	1	1.58**	0.96**	2.98 <sup>ns</sup>	133.33 <sup>ns</sup>	1.16 <sup>ns</sup>	141.69*	269.56*	0.62*	0.30 <sup>ns</sup>	19.65**	4.68 <sup>ns</sup>	0.13 <sup>ns</sup>	1.16 <sup>ns</sup>	33.33**						
O × AM × Var	2	5.46**	1.06**	5.80 <sup>ns</sup>	28.28 <sup>ns</sup>	68.35**	50.39 <sup>ns</sup>	80.29 <sup>ns</sup>	0.16 <sup>ns</sup>	0.35 <sup>ns</sup>	0.69 <sup>ns</sup>	4.68 <sup>ns</sup>	0.91 <sup>ns</sup>	5.06 <sup>ns</sup>	6.38 <sup>ns</sup>						
Error	36	0.223	0.019	2.46	34.11	1.16	28.68	45.64	0.146	0.30	2.62	14.40	1.51	4.46	4.06						
CV%		2.05	1.20	3.15	3.69	1.34	8.34	10.23	4.63	5.08	4.64	3.12	3.26	3.98	3.66						

O: Osmotic stress, Var: Varieties, AM: Arbuscular mycorrhizal inoculation, ns: non-significance at  $P \leq 0.05$ ; \* $P \leq 0.05$ ; \*\* $P \leq 0.01$ , statistical significance

**Table 4** Analysis of variance of *osmotic stress*, arbuscular mycorrhiza and variety and their interactions effects on osmolytes, activity of antioxidant enzymes (catalase (CAT), peroxidase (POD), polyphenol oxidase (PPO)), and shoot and root dry weights

Source of variation	df	Proline	Total soluble sugar	CAT	POD	PPO	Shoot dry weight	Root dry weight
O	2	136.50**	36248.39**	3864.92**	2.62**	217.80**	1.09**	0.002**
AM	1	16.54**	2693.25**	281.51**	0.13**	36.63**	0.083**	0.008**
Var	1	30.56**	753.58**	210.45**	0.34**	33.87**	0.015**	0.00086**
O × AM	2	1.12**	419.88**	26.07**	0.009**	4.40**	0.017**	0.00083**
O × Var	2	0.04**	79.14**	43.14**	0.09**	6.19**	0.148**	0.0001**
AM × Var	1	0.44**	6.87 <sup>ns</sup>	2.59 <sup>ns</sup>	0.01**	1.35**	0.0068**	0.0003**
O × AM × Var	2	0.43**	17.17 <sup>ns</sup>	8.18**	0.013**	0.9**	0.0058**	0.00009 <sup>ns</sup>
Error	36	0.006	7.40	0.832	0.0003	0.126	0.0001	0.00003
CV%		1.32	2.92	4.41	3.46	5.08	2.25	5.88

O: *Osmotic stress*, Var: Varieties, AM: Arbuscular mycorrhizal inoculation, ns: non-significance at  $P \leq 0.05$ ; \* $P \leq 0.05$ ; \*\* $P \leq 0.01$ , statistical significance

#### Author details

<sup>1</sup>Department of Agronomy and Plant Breeding, Faculty of Agriculture, Yasouj University, Yasouj, Iran. <sup>2</sup>Department of Agronomy, Faculty of Agriculture, Azarbaijan Shahid Madani University, Tabriz, Iran.

Published online: 05 March 2022

#### Reference

Ebrahimi F, Salehi A, Movahedi Dehnavi M, Mirshekari A, Hamidian M, Hazrati S (2021) Biochemical response and nutrient uptake of two arbuscular mycorrhiza-inoculated chamomile varieties under different osmotic stresses. *Bot Stud* 62:22. <https://doi.org/10.1186/s40529-021-00328-3>

#### Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.