



SDI Review Form 1.6

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_43023
Title of the Manuscript:	Growth, production and essential oil content of basil genotypes in hydroponic conditions under salt stress
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The authors submitted the Ms "Growth, production and essential oil content of basil genotypes in hydroponic conditions under salt stress." For possible publication at the Journal. Therefore, their aim was "to evaluate growth variables and production, content and yield of essential oil of three basil genotypes subjected to salinity under hydroponic conditions. After Ms reviewed, the interesting results show that the three basil genotypes grown on salinity stress in hydroponic media produced essential oil. I suggest accepting at the Journal after major revision mainly in writing the results. I made some suggestion on how should presented. Start here, In Lines 141 to 149. "Figure 1 and Table 2 change by Table 1, showed the three basil genotypes, grown on salinity stress in hydroponic media, at 28 days after transplantation. Genotypes 'Toscano Folha de Alface', 'Alfavaca Basilicão' and Grecco a palla, the salinity decreased plant height (for example reduction from 3.34 to 3.72%??), shoot dry matter, shoot fresh matter, stem diameter, absolute growth rate, and relative growth rate as the electrical conductivity of the soil nutrient increases from 2.45 to 12.27 dS ml⁻¹. Being Alfavaca Basilicão genotype the less inhibited in growth and Grecco a palla the most sensible to salt stress. Table 1 and Fig. 2 (essential oil production and yield) showed that Grecco a palla genotype produced the highest essential oil content. The values going from 1.29, 1.50, 1.63, 1.90, 2.63, and 2.75 as the electrical conductivity of the soil nutrient (produced by the increases of salt stress) increases from 2.45 to 12.27 dS ml⁻¹, whereas the other two genotypes were less active in essential oil production and yield. In Line 197 Add, "Here we found the same results for Toscano folha de alface and Alfavaca Basilicão genotypes. In Line 245-147, "Alfavaca Basilicão' had the same OC content compared with the others genotypes. However, at the highest salinity level tested, 12.27 dS m⁻¹, this genotype showed the lowest OC production compared with the others genotypes, which suggests that, under high salinity level, this genotype is not useful for oil production. In Conclusion Star with "The Grecco a Palla genotype has the highest essential oil production under high salt stress growth media. In Line 264 to 265 write at the end "In general, basil growth decreases with salt stress, and plant height was most resistant to salt stress, therefore, it enhances when nutrient solution salinity increases. I suggest relate the discussion with the author results in Table 1. Re-write the description of Table 1 and change content at the final of the Ms, I found difficult to understand. Indicate the unit of data measurement in Table 1. Make a better presentation of the Graphs. In Figs. Legends write like "Effect of salt stress measured as electrical conductivity of...on three basil genotypes during growth on hydroponic media for 28 days (Panel A) or (Panel B) ..then at below figs write plant height, etc. All the parameters are presented as percentage, or cm, or g, or X?. Non treated seeds were used as control and was taken as 100% of height or root and shoot elongation. Data are average of three replicates. The bars represent the maximum standard deviations (See Experimental). Indicate here statistical studies.	Authors request the maintenance of description of results by differences of isolated and interaction effects between the salinity and genotypes studied. The changes in suggested in lines 141 to 149 could hide important information related to the variables that had interaction between the salinity and the genotypes. In line 197, we results no are same results found in literature cited, because Toscano Folha de Alface' was not more tolerant than 'Alfavaca Basilicão'. I would like to inform that all suggestions of revisers were incorporated including the list of abbreviations below Key words though its not according to norms given in the site (it can even be removed depending on Editor's view point, because we maintained the information regarding abbreviation in the text as earlier).
Minor REVISION comments		
Optional/General comments		Authors thank anonymous reviser for the complements