



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_11495
Title of the Manuscript:	Sustainable Production of Groundnut (<i>Arachis hypogaea</i> L.) through Screening and Selection of Soil Salinity-Tolerant Genotypes
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 manuscript represents an important study on salinity tolerance in groundnut (<i>Arachis hypogaea</i>). A set of groundnut genotypes has been subjected to a wide range of salt levels (0, 25, 50, 100, 150 and 200 mM NaCl) and parameters associated with plant germination, plant growth and development (plant height, number of nodes on primary stem, number of primary branches, biomass of vegetative parts) and the final yield (number of pods per plant, number of seeds per pod, number of seeds per plant, 100 seed mass) were determined. The data were appropriately statistically evaluated and clear conclusions were driven. I can therefore recommend the manuscript for publication after a minor revision since I have three major comments on the current form of the manuscript. 1/ The data presented in Table 1 are shown without adequate statistical treatment (ANOVA, Tukey HSD test) unlike the data in Table 2 to 5. I recommend to add the results of ANOVA, HSD test to Table 1. 2/ The English language and grammar in the manuscript is comprehensive; however, I have a few comments on some specific parts of the manuscript (see below). 3/ The order of the references [10] and [11] has to be reversed since there is first cited reference numbered as [11] - please, correct the reference order.	
Minor REVISION		



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comments	Minor comments on English language and grammar: Abstract, line 1: Insert an indefinite article “a” before the words “sustainable food production” Abstract, line 9: Insert a comma “,” before the word “respectively” Introduction, page 2, line 4: Insert a subject in the following sentence: “In arid and semi-arid regions of the world, agriculture relies on irrigation practices for crop production.” (There is no subject in the original sentence). Introduction, page 2, line 10: Insert an indefinite article “an” before the word “imperative”, i.e., “an imperative for sustainable crop production.” Introduction, page 2, line 13: Change the verb “opined” to “proposed” in the sentence “Thus, it was proposed that soil salinity...” Introduction, page 2, line 14: Insert an indefinite article “an” before the word “imperative”, i.e., “an imperative to cope with its demand...” Introduction, page 2, line 15: Rephrase the sentence as follows: “...about more areas suitable for groundnut cultivation...” Introduction, page 3, line 2: Replace the verb “taken” by the verb “defined” in the sentence “...and germination was defined as emergence of radicle.” Results, page 4, line 3: Replace the word “least” by “lowes” and rephrase the sentence as follows: “The lowest mortality of....” Results, page 4, lines 4 and 5. Insert a comma “,” before the word “respectively” Discussion, page 11, lines 4 and 5: The order of the references [10] and [11] has to be reversed since there is first cited reference numbered as [11] - please, correct the reference order. Discussion, page 11, line 4: Write “reported in <i>Triticum dicoccum farrum</i>” (not “reported on”) Discussion, page 11, line 5: Correct the spelling of the plant name „<i>Vigna subterranea</i>“ (not „<i>Vigna subterranean</i>“) Discussion, page 11, line 11: Insert article in the sentence „A decrease in the number of leaves...” Discussion, page 11, line 12: Insert an indefinite article „an” before the words „an inhibition of lateral branches“ Discussion, page 11, line 12: Insert an indefinite article „a” before the words „a decrease in plant...”	
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	Discussion, page 11, line 14: Rephrase the sentence as follows: „A decrease in pod number was associated with an increase in ABA and pollen death.“ Discussion, page 11, line 15: Rephrase the sentence as follows: „Pod size was reduced, leading to a decrease in the number of seeds.“ Discussion, page 11, line 17: Insert article in the sentence „A decrease in the number of leaves...“ Conclusion, line 1: Replace the word „lesser“ by „lower“, i.e., „lower mortality“ Conclusion, line 4: Insert an indefinite article „an“ before the words „an immense promise“ Conclusion, line 6: Insert an indefinite article „an“ before the words „an improvement in groundnut production.“	
<u>Optional/General</u> comments	The manuscript represents an important study on the effect of a wide range of salt levels on basic germination, growth, development and yield characteristics in a set of groundnut genotypes with differential levels of salinity tolerance. The data are presented comprehensively with adequate statistical treatment and clear conclusions are stated. I can therefore recommend the manuscript for publication after a minor revision (see the comments above).	

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