



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_14979
Title of the Manuscript:	Spinach yield is increased by larger plug cell volume and an exogenous BAP spray
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	1) L 55/ It's recommended to precise the mineral composition of the soil 2) L56/ It's compulsory to justify the used concentration of BAP (references) 3) L60/ It's important to mention the amount of water applied per week 4) L89/ It's very important to give references about equations (NAR and LAP) 5) L 103/ Specify the reference of the given method 6) L 267/ It's important to compare with control plants 7) L 270/ Explain what's the relationship between the effect of applied BAP and the BAP naturally present in the plant 8) L 297/ The BAP have a positive effect on carbon assimilation and consequently on photosynthesis, so explain this phenomenon in term of accumulation of chlorophyll a, b and total chlorophyll content in leaf 9) As the BAP is an hormone, you should explain its effect on the hormonal balance (auxins, gibberellins,	1) Mineral composition of the soil was included. 2) Reference which justifies the BAP concentrations used has been included. 3) The amount of water applied per week was variable. However, water supply compensated 80% evapo-transpiration. 4) Reference has been included. 5) References have been included. 6) It was made. 7) This relationships are indicated in L 274-275 in the corrected version. 8) BAP did not significantly change spinach chlorophyll content (data not shown). 9) This work did not include data which let



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	ethylene) within the plant	to discuss BAP relationships with the other endogenous hormones.
<u>Minor</u> REVISION comments	1) L 41/ Give more details about the interest to work on Spinah generally and its economic importance in Argentina 2) L 54/ Give justifications of the use of c.v. Ballet 3) L 266/" The productivity [...] with high fresh weight per plant" and it's in relation with dry weight too! 4) L278/ It would be rather be a supposition	1) The aim of this work was describe ecophysiological mechanisms involved in the spinach response to different technological routines not quantify the economic importance in Argentina. 2) Justification was made. 3) Suggested changes has been included. 4) Paragraph has been changed
<u>Optional/General</u> comments	1) L 57/ It's preferable to describe how dilution of BAP was done (alcool, 70%? 80%,,,)	1) BAP dilution has been described.