



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_10822
Title of the Manuscript:	Gibberellic acid (GA₃), an influential growth regulator for physiological disorder control and protracting the harvesting season of sweet orange
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. Please expand the abbreviations when you use for the first time (NAA/RCBD.....). 2. Sub headings must not be abbreviated (CDP/PDS) in results and discussion. 3. GA₃ (Pro-Gibb, company? country?) please give the details of the manufacturer of the chemical. 4. For CDP determination protocol, is there any reference where other researchers have previously used it? Is it the accurate method. Are there any other alternate protocols. 5. If the fruit size is big and won't fit in a glass how will you check the CDP. Is this practical and reliable? 6. Fig.2 explains CDP for Succari, can you put the images for other cultivars next to each other for a good comparison/ or with different treatments and control. 7. What is LSD/CPPU/PGR'S: Expand them. 8. More references on similar research methodologies must be cited for each test, to compare the differences. 9. Results and Conclusion section must be improved with clear interpretation of the results trying to explain your research objective. 10. There is no significant explanation of statistical analysis to support the experimental part. Statistical data must be included and be explained in the results section either with a	1. All the abbreviations have been expanded on their first appearance. 2. All sub headings are mentioned in full with abbreviation in parentheses. 3. Full detail of the product along with the company, manufacturer and country location have been provided as suggested. 4. All the informations regarding CDP has been excluded, as we want to add some fine details about this protocol, as it is a new method and we want to repeat the same experiment once again to confirm its authenticity. We will publish this protocol after a thorough confirmation, at this stage there is not even a single article to be refered. 5. Usually a glass is enough space to accomodate four fruits easily on that stage, however if it won't fit in a glass one can use a medium or big size beaker. 6. The CDP section has been excluded due to the reason mentioned in comment 4. 7. All the abbreviations are expanded on their first appearance in text. 8. References [21,22] are included to support the methodology section. 9. Results and conclusion have been improved through addition of several new references and result's comparison along with data table.



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	graph or table. 11. Concentration of GA3 applied in this experiment is selected on which basis? Please cite any supporting literature with preliminary data for the concentration you used. Reference [20] is cited, does it have the information? If so please mention the concentration they used in the study. This will strengthen the methods sections. 12. To study the fruit growth, how many fruits per tree were selected and how many trees for each treatment were selected. What are results for each treatment and each cultivar please show it in a table with respective statistics and explain in the discussion with references. 13. References are greatly in need to strengthen the paper, especially the results and experimental part.	10. To show the significant differences Table-1 has been inserted to show the statistical analysis of data. 11. The calculations were made on parts per million (ppm) basis ; 1mg GA3 dissolved in 1Litre water= 1ppm. For support please see Ref.[21]. 12. Four branches on each tree and four fruits on each branch, each treatment was replicated three times so it makes 48 fruits per treatment. As with passage of time most of the tagged fruits had dropped through natural or some other reasons thats why we mentioned this parameter under the sub heading of supplementary information. 13. Several new references have been provided to strengthen the paper as suggested.
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<u>Minor</u> REVISION comments	1. Please check formatting (spaces wherever needed and correct usage of uppercase and lower case letters). Also please check grammar and sentence constructions. 2. After period the number must be in words (Line 65: Thirty six trees instead of 36). 3. Please check the overall English used in the paper with a professional, this will help greatly.	1. Formatting and grammar are checked to each and every possible extent. 2. All the numerals in the text are written in words where it appeared in text. 3. The paper is cross checked by a professional and changes have been made on that basis.
<u>Optional/General</u> comments	1. When you say GA3, are GA1, GA2 also present. If the differences in GA1, GA2, GA3 & GA4 are explained in the introduction, it might strengthen the research on why is GA3 significant in this study than other researchers. 2. If the biochemical structure of GA3 is given and the mode of action or significant functional groups are shown that would be more interesting when you explain the results. 3. Did you study any Calcium treatments for PDS/PDF, because you cited in the results with the reference. If not does GA3 structure/function have direct relation with calcium channels that might affect PDS/PDF. Is there any literature. This might strengthen the results section.	1. GA3 is the most biologically active form of GA among GA1,2,4 & 7. References and explanation are given in introduction part. 2. The mode of action and its structural features have been added in materials and methods section, references have been quoted for support. 3. We did not study the infield application of calcium and its influences but we did mention the interaction of calcium and GA3 in the manuscript's body in detail, as well some reference solely stated about the influence of calcium on fruit physiological disorders. Note: All the corrected and newly added segments are highlighted with yellow ink.