

Journal Name:	PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY
Manuscript Number:	Ms_PCBMB_12579
Title of the Manuscript:	Physio- biochemical and molecular changes associated with waterlogging stress in sugarcane: A Review
Type of the Article	

General guidelines for the 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.

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	<p>The manuscript is based on the waterlogging state, so farmers may understand the need of proper irrigation in sugarcane farms.</p> <p>The transcriptomic analysis can provide information about genes responsible for sugarcane tolerance under waterlogging conditions.</p> <p>Scientists can employ genetic engineering to create waterlogging resistant genotypes for regions with high rainfall.</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	<ol style="list-style-type: none"> 1. Bold the abstract title 2. A few morphological, anatomical, biochemical, molecular, and physiological changes should be briefly mentioned. 3. Write WL as an acronym for waterlogging. 4. Incorporate keywords 	
Is the manuscript scientifically correct? Please write here.	Yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Discuss some additional articles to write this MS.	

<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Average</p>	
<p><u>Optional/General</u> comments</p>	<ol style="list-style-type: none"> 1. Please instruct the writers to put in the line number. 2. Remove the double spaces from the text. 3. Add L. to Saccharum officinarum. 4. Avoid using images in photo frames. 5. Provide an overview of waterlogging, in the introduction. 6. Mention the year in Figure 1. 7. appropriate label of the figures 8. Did you obtain written consent before publishing the research photos? 9. Twenty four sugarcane genotypes (eighteen germplasms/lines and six commercial varieties) of sugarcane were evaluated for waterlogging tolerance based on leaf, stalk, root and whole clump dry weight, specific leaf weight, chlorophyll and carotenoid content for identifying waterlogging tolerant sugarcane genotypes based on tolerance indices at Kharika Block of Indian Institute of Sugarcane Research, Lucknow. 10. Provide a formula for the percentage numerical increase/decrease in table 1. 11. Please provide the days on which all of these parameters were measured. 12. Improve your English skills. Use online tools to frame it. 13. Parameters should be written in grams, not kilograms. 14. (90–170 DAP) caused 21.63 -26.52 % . Is there a range or two distinct values? 15. Format the tables properly. 16. increase was high in tolerant genotypes (Co 99006-36.25 %) as compared to sensitive genotypes (Co 86032-14.50 %). It might be- activity was high in tolerant genotypes (Co 99006-36.25 %) as compared to sensitive genotypes (Co 86032-14.50 %). 17. Discuss about sugarcane in more detail. 18. PFP enzyme: look up its name 19. Describe the function of genes in waterlogging conditions. 	

	<p>20. The gene CYP81D8 should be italicized.</p> <p>21. Please include a standard deviation bar in Figure 10.</p> <p>22. This review does not appear to be a review; rather, it appears to be an original publication presenting only one research.</p> <p>23. Effectively summarize the conclusion.</p> <p>24. Format the references according to journal guidelines.</p>	
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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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