

**Review Form 1.7**

Journal Name:	<b>Journal of Advances in Biology &amp; Biotechnology</b>
Manuscript Number:	<b>Ms_JABB_119200</b>
Title of the Manuscript:	<b>Optimizing Nitrate Levels in Vegetables through Breeding: A Review</b>
Type of the Article	<b>Review Article</b>

## Review Form 1.7

### 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)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> <li>1. The integration of conventional and modern techniques to reduce nitrate levels is particularly relevant given the increasing concerns over food safety and sustainable agricultural practices.</li> <li>2. Title is appropriate but could be made more specific to highlight the focus on both traditional and biotechnological approaches. An alternative title could be: "Breeding Strategies and Biotechnological Approaches to Reduce Nitrate Levels in Vegetables: A Comprehensive Review."</li> <li>3. There are some repeated and redundant statements in the abstract. Abstract could also be improved by: <ul style="list-style-type: none"> <li><input type="checkbox"/> Including key findings or conclusions of the review.</li> <li><input type="checkbox"/> Briefly mentioning specific breeding methods and biotechnological approaches.</li> <li><input type="checkbox"/> Highlighting any research gaps or future directions.</li> </ul> </li> <li>4. The subsections and structure of the manuscript are appropriate. The division into sections such as "Nitrate Accumulation in Vegetables," "Nitrate Distribution Within the Plant," "Nitrate Toxicity," and "Breeding Strategies for Low Nitrate Content" allows for a logical flow of information. However, it could benefit from: <ul style="list-style-type: none"> <li>- A more detailed introduction outlining the objectives and structure.</li> <li>- A concluding section summarizing key points and suggesting future research directions.</li> </ul> </li> <li>5. Yes.</li> <li>6. While the manuscript includes a substantial number of references, many are outdated. Incorporating more recent studies will enhance the manuscript's relevance and accuracy. Here are some suggestions for additional references: <ul style="list-style-type: none"> <li>- For recent advancements in genetic and biotechnological approaches, consider studies from the past five years on CRISPR-Cas9 and RNAi in plant breeding.</li> <li>- Include recent data on nitrate levels in vegetables from different regions to provide a current perspective on the issue.</li> </ul> </li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	Yes	
<p><b>Optional/General</b> comments</p>	N/A	

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**PART 2:**

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

**Reviewer Details:**

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