

**Review Form 3**

Journal Name:	<b>Journal of Advances in Biology &amp; Biotechnology</b>
Manuscript Number:	<b>Ms_JABB_120873</b>
Title of the Manuscript:	<b>Enhancing the Genetic Understanding of Rice to Develop Breeding Techniques for High Yield and Superior Quality Varieties</b>
Type of the Article	<b>Review Article</b>

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	It is a quite relevant piece per structure, but it is more generic, and need recast under each section for the contents to reflect the main topic.	
Is the title of the article suitable? (If not please suggest an alternative title)	<p>The topic is quite okay. However, I will suggest it should be modified as;</p> <p style="text-align: center;"><b>“Enhancing the Genetic Understanding of Rice for Strategic Breeding of High Yielding and Superior Quality Varieties”.</b></p> <p style="text-align: center;">Because, genetic understanding of rice maybe enhanced for developing breeding techniques but if these techniques are not utilized strategically the desire results of high yielding may not be achieved. So when we consider the term “strategic development” it encompasses even the breeding techniques</p>	
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.	It is comprehensive though but more generic. Key scientific findings and their potential usage in developing rice breeding cutting-edge techniques can be added	
Are subsections and structure of the manuscript appropriate?	The structure is okay, but then the sub-sections will need additional information on relevant literatures that will be well articulated and link to the main topic.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	From technical point of view, all the sub-headings may need additional beef ups, because, they contain scanty relevant information to point out the interesting findings and how these could guide in strategic decision making for enhanced rice breeding.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	References are recent but not quite sufficient, and that might be the reason why the various sub-headings ae not detailed.	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<ol style="list-style-type: none"> <li>1. Please, a minor correction may be applied to “<i>Table 1: Key Genes Associated with Rice Yield and Quality Traits</i>” It will be right to provide references to the target genes listed in the table with their functions by adding a column to the right for the references in each case</li> <li>2. The article may be subjected to proofread to correct some few terms’ usage. E.g. the heading “<b>GENETIC BASIS OF RICE QUALITY AND YIELD</b>” maybe rewritten as “genetic bases for yield and grain quality” because, from the topic the subject matter is well known, which is rice, so there may not be need to repeat the name rice in some sub-headings like this one in question. Also, the content under this heading is well informing but it could be more comprehensive if a brief highlight can be given on the current nature of diversity among rice germplasms, and in that context how the potentials can be maximized</li> <li>3. Please, regarding the sub-heading “<b>Genetic Factors Influencing Rice Quality Attributes</b>” it has scanty valuable information about the various quality parameters of rice grains and the genetic actions governing them. It is also more welcoming to audience if you could go precise on the quality traits terms as <b>cooking characteristics</b> in the article; if you can also consider adding culinary attributes like fast cooking, taste, texture, expansion, etc.</li> <li>4. References for “<b>Table 2: Comparison of Breeding Techniques</b>” should also be provided in the format suggested for table 1 above</li> <li>5. Concise articulating analyses of the nature of threats pose by elements of climate on rice breeding will also be a resounding component if added.</li> </ol>	
<p><b>Optional/General</b> comments</p>	<p>The manuscript has a good structure in line with the main heading, however, major revisions by adding more detailed and relevant information to the various sub-sections may be considered to make it more informative for scholarly acceptance.</p>	

**PART 2:**

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

**Reviewer Details:**

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<p>Department, University &amp; Country</p>	<p><b>Crops Research Institute, Ghana</b></p>