

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_104017
Title of the Manuscript:	Genetic Inheritance of Anthocyanin Pigmentation in Rice (Oryza sativa L.)
Type of the 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:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>This paper investigates the genetic inheritance of purple anthocyanin pigmentation in rice (Oryza sativa L.) using hybridization and segregation analyses, revealing the involvement of two to three genes with different interactions. The findings shed light on the complex regulation of pigmentation traits in rice plants and highlight the potential for utilizing phenotypic markers in rice breeding and crop improvement.</p> <p>Yes</p> <p>No</p> <p>Can be improved.</p> <p>Yes</p> <p>No</p> <p>1. The paper should provide a clear and concise explanation of the specific steps involved in the hybridization process during the experimental procedure. 2. Use standardized terms, such as "Purple" and "Green," consistently throughout the paper to represent the observed phenotypes in the F2 population. 3. Consider presenting the segregation data in Table 2 using graphical representations, such as bar charts, to enhance the visual understanding of observed ratios. 4. Clarify the level of significance used in the chi-square test and interpret the results in terms of statistical significance. 5. Include a comprehensive discussion comparing the current study's findings with previous research on anthocyanin pigmentation in rice to provide context and insights into any observed discrepancies.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Can be improved	
<p>Optional/General comments</p>	None	

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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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