

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_125393
Title of the Manuscript:	Genetic Variability and Correlation Studies in Red Rice (<i>Oryza sativa</i> L.) for Yield Related Traits and Grain Zinc, Iron and Protein Content
Type of the Article	Original Research Article

PART 1: Review Comments

<u>Compulsory REVISION</u> comments	Reviewer's comment	Author's Feedback (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.	The focus on red rice, particularly its nutrient content (zinc, iron, and protein), is important due to the global health challenges related to nutrient deficiencies. The potential for red rice to address deficiencies in developing countries adds significance to the research.	
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.	Succinct.	
Are subsections and structure of the manuscript appropriate?	The study provides a clear structure, using well-established methodologies, such as analysis of variance (ANOVA) and correlation studies, which make the results reliable and valid. The utilization of tools like the Kjeldahl method and Atomic Absorption Spectrophotometer (AAS) for nutrient quantification enhances the accuracy of the findings.	
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.	The paper includes detailed analysis using parameters such as phenotypic coefficient of variation (PCV), genotypic coefficient of variation (GCV), heritability, and genetic advance, offering valuable insights into the genetic diversity and heritability of key traits. By identifying genotypes with high levels of zinc, iron, and protein, the research offers actionable insights for future breeding programs aimed at developing nutrient-rich rice varieties.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Ok.	
<u>Minor REVISION</u> comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments	The number of plants sampled for each genotype isn't clearly stated. Clarifying the sample size used for each trait measurement (e.g., number of replicates for nutrient content) would strengthen the methodology section. Elaborate on the negative correlations between yield and nutrient content (protein, iron). Suggest ways to manage these trade-offs in breeding programs.	

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:

Name:	T. Sabesan
Department, University & Country	Annamalai University, India