

**Review Form 1.7**

Journal Name:	<b>Journal of Experimental Agriculture International</b>
Manuscript Number:	<b>Ms_JEAI_119918</b>
Title of the Manuscript:	<b>EXPLORING GENETIC VARIABILITY, PATH ANALYSIS AND DIVERGENCE IN SORGHUM (<i>Sorghum bicolor</i> (L.) Moench)</b>
Type of the Article	<b>Review Article</b>

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p>	<p>1.This manuscript is indeed important for the scientific community, particularly those involved in crop genetics, plant breeding, and food security research. It provides valuable insights into the genetic diversity, path analysis, and divergence of sorghum, a crucial cereal crop for many tropical and semi-arid regions. By highlighting the genetic variability inherent in Ethiopian sorghum landraces, the manuscript underscores the potential for improving sorghum's agronomic traits and resilience to environmental stressors. This knowledge is vital for breeding programs aiming to develop superior sorghum varieties, thereby contributing to sustainable agriculture and food security in regions heavily dependent on this crop.</p> <p>2. The title "EXPLORATION DE LA VARIABILITÉ GÉNÉTIQUE, DE L'ANALYSE DES CHEMINS ET DE LA DIVERGENCE DU SORGHO (Sorghum bicolor (L.) Moench)" is broadly suitable for this work as it clearly describes the main findings of the manuscript. However, to make it more concise and highlight the geographical and practical importance, I would personally suggest the following title: "Genetic Diversity, Path Analysis, and Evolution of Ethiopian Sorghum (Sorghum bicolor (L.) Moench)" This alternative title emphasizes the geographical focus and the broader implications for sorghum variety improvement and agricultural practices.</p> <p>3. The abstract of the article is quite comprehensive as it provides a broad overview of the key points covered in the manuscript. It mentions the origins and importance of sorghum, its genetic diversity, and the relevance of Ethiopian germplasm in breeding programs. Additionally, it highlights the potential of genetic enhancement and the necessity of understanding genetic variability for improving agronomic traits. However, it could be improved for clarity and conciseness.</p> <p>4. The manuscript is structured in a manner that deviates from the conventional format typically used in the scientific community (Introduction, Materials and Methods, Results, Discussion, Conclusions, and Perspectives). It is clear that the adopted sections and subsections focus on various aspects such as genetic variability, path analysis, and divergence in sorghum. This organization theoretically allows readers to navigate effectively through specific, related issues in genetics and sorghum improvement. However, it appears that the manuscript structure could benefit from the following considerations:</p> <p><b>Form Revision:</b> Review the numbering format, which transitions directly from Section 2° to Subsection 2.2. Ensure sections are balanced quantitatively to avoid overly simplistic sections contrasted with heavily subdivided ones.</p> <p><b>Content:</b></p> <p><b>Clarity and Coherence:</b> Ensure each subsection significantly contributes to the overall objective of the manuscript and clarifies the conclusion. Transitions between subsections should be smooth to maintain narrative coherence.</p> <p><b>Relevance of Subsections:</b> The chosen subsections, such as genetic variability and path analysis, should directly contribute to addressing the main research questions.</p> <p><b>Accessibility and Readability:</b> The manuscript structure should make information easily accessible to readers. Subsection titles should be descriptive and engaging, encouraging continued reading.</p>	



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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>	

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