

Review Form 3

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_128624
Title of the Manuscript:	Comparison of Rice plant Microbiomes in environment of Rice Yellow Mottle Virus infection in Mali
Type of the Article	Original Research

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is highly significant for the scientific community as it provides valuable insights into the interplay between plant virology and microbiome ecology, a field of growing importance in sustainable agriculture. By elucidating the shifts in microbial community structure associated with RYMV infection, the study advances our understanding of the potential role of beneficial microorganisms in enhancing plant resistance. The identification of specific bacterial genera with possible biocontrol properties paves the way for innovative, environmentally friendly strategies to manage viral diseases in rice. Additionally, the findings contribute to global efforts to improve food security in Sub-Saharan Africa, a region heavily impacted by RYMV outbreaks.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "Comparison of Rice Plant Microbiomes in the Environment of Rice Yellow Mottle Virus Infection in Mali," is informative but could be more concise and engaging. It effectively conveys the topic but lacks a focus on the key findings or broader implications of the research. Suggested Alternative Titles: "Microbiome Shifts in Rice Plants Under Rice Yellow Mottle Virus Infection in Mali" "Exploring Microbial Dynamics in RYMV-Infected and Non-Infected Rice Plants in Mali" "Microbiome Responses to Rice Yellow Mottle Virus Infection: Insights from Rice Cultivation in Mali" "Leveraging Rice Plant Microbiomes for RYMV Management in Mali" These alternatives maintain clarity while emphasizing the study's focus on microbiome shifts and potential applications.	

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<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.</p>	<p>Suggestions for Additions:</p> <ol style="list-style-type: none"> 1. Methodology Specifics: <ul style="list-style-type: none"> ○ Include details about the sequencing platform (e.g., Illumina, Nanopore) and key bioinformatics tools or pipelines used. This adds methodological transparency. 2. Quantification of Results: <ul style="list-style-type: none"> ○ Provide specific metrics or statistics (e.g., percentage differences in diversity indices or microbial abundances) to substantiate claims of "significant shifts" and "reduced microbial diversity." 3. Key Implications: <ul style="list-style-type: none"> ○ Explicitly mention how these findings can influence future research or practical applications, such as targeted biocontrol development or sustainable agriculture strategies. <p>Suggestions for Deletions/Edits:</p> <ol style="list-style-type: none"> 1. Background Information: <ul style="list-style-type: none"> ○ The first sentence provides essential context but could be streamlined to avoid redundancy with subsequent sentences. For example, merge the yield loss information with the importance of RYMV in the region. 2. Terminology Precision: <ul style="list-style-type: none"> ○ Replace vague terms like "significant shifts" with more precise descriptions (e.g., "alterations in bacterial community composition"). 3. Future Directions: <ul style="list-style-type: none"> ○ The concluding sentence about future research is relevant but could be more specific. For example, mention isolating microbes for biocontrol trials or exploring functional metagenomics. 	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript appears to be scientifically sound in its objectives and general approach. It employs widely accepted methods, such as RT-PCR for confirming viral infection and next-generation sequencing (NGS) for microbiome analysis, which are appropriate for this type of study. The interpretation of microbial diversity metrics (e.g., Shannon and Simpson indices) to describe changes in community composition is standard practice in microbiome research.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Yes</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality is close to acceptable for scholarly communication, but minor edits for grammar, conciseness, and flow would elevate it to a polished, professional level.</p>	
<p>Optional/General comments</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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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