

Review Form 3

Journal Name:	Microbiology Research Journal International
Manuscript Number:	Ms_MRJI_126622
Title of the Manuscript:	Efficacy of Zinc oxide nanoparticles against anthracnose and southern blight disease of green gram
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION 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)
<p>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.</p>	<p>This manuscript holds significant value for the scientific community as it tackles an important gap in current research, providing new insights into [disease of green gram]. The methodology is robust, and the results offer a fresh perspective that could influence future studies and applications in the field.</p> <p>I appreciate how the authors present complex data in a clear and engaging manner, making it accessible to both specialists and a broader audience. Overall, this work contributes meaningfully to advancing knowledge and has the potential to spark further exploration and debate within the scientific community</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Title is good but it can improve</p> <p>"Antifungal Efficacy of Zinc Oxide Nanoparticles Against Anthracnose and Southern Blight Diseases in Green Gram"</p>	
<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>The abstract of the article is largely comprehensive and provides a clear overview of the study's objectives, methods, and results. It succinctly describes the synthesis of zinc nanoparticles (ZnNPs) using plant extracts and their antifungal activity against the two fungal pathogens, <i>Colletotrichum lindemuthianum</i> and <i>Sclerotium rolfsii</i>. It also highlights the comparison of ZnNPs with plant extracts and zinc nitrate hexahydrate.</p> <p>However, there are a few suggestions for improving clarity and adding more context to make the abstract even more comprehensive: Suggestions for Improvement:</p> <ol style="list-style-type: none"> 1. Clarify the Significance of the Study: While the results are clearly presented, the abstract could benefit from a brief mention of why this study is important or the broader implications of the findings. For example, it could highlight the relevance of anthracnose and southern blight in mung beans and the potential of ZnNPs as sustainable alternatives to chemical fungicides. <p>Example Addition: "This study provides an eco-friendly alternative to chemical fungicides, addressing the increasing need for sustainable agricultural practices to combat fungal diseases in mung beans."</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>subsections and structure of the manuscript is good</p>	
<p>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.</p>	<p>Include a Brief Methodology Description: The abstract mentions the "poisoned food technique" but does not elaborate on it. While detailed methodology is not necessary for the abstract, a very brief description of the technique could add value, especially for readers unfamiliar with the method.</p> <p>Specify the Full Names of the Pathogens Initially: You introduce the fungal pathogens by their scientific names, which is good, but including the common names could enhance accessibility for readers outside the specialized field.</p> <p>Include a Brief Methodology Description: Example Addition: "The antifungal activity was evaluated using the poisoned food technique, where varying concentrations of ZnNPs were incorporated into the growth medium to assess their effect on fungal growth."</p>	

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	<p>Specify the Full Names of the Pathogens Initially: Example Addition: <i>"Colletotrichum lindemuthianum (causing anthracnose) and Sclerotium rolfsii (causing southern blight) were tested."</i></p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The references is sufficient</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language/English quality of the article suitable for scholarly communications</p>	
<p><u>Optional/General</u> comments</p>	<p>The conclusion effectively summarizes the key findings of the study and emphasizes the potential of zinc nanoparticles (ZnNPs) as a promising alternative for managing fungal diseases in crops. However, to enhance clarity and ensure that the conclusion is well-rounded, there are a few suggestions for refinement:</p> <p>Elaborate on Future Research Directions: The suggestion for further research is useful but could be expanded slightly to indicate what specific aspects should be investigated, such as the exact mechanisms of action, the long-term effectiveness of ZnNPs, or their impact on soil health and non-target organisms.</p> <p>Example Revision: <i>"Future research could explore the mechanisms underlying the antifungal activity of ZnNPs, their stability under field conditions, and their environmental impact, including potential effects on soil health and non-target organisms."</i></p> <p>No ethical issues in this manuscript No competing interest issues in this manuscript No plagiarism is suspected</p> <p>PLEASE SEE ATTACHMENT</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>	

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