

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Crop Science</a>
Manuscript Number:	Ms_AJRCS_128444
Title of the Manuscript:	Effect of Gamma irradiation and Storage Time on the Sprouting of Cocoyam Corms
Type of the Article	

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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### Review Form 3

#### 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</i>
<b>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.</b>	This manuscript provides valuable insights into the use of gamma irradiation as a method for enhancing the post-harvest management of cocoyam, a staple crop in many tropical regions. By demonstrating the dose-dependent suppression of sprouting in cocoyam corms, the study highlights a practical approach to reducing storage losses and extending shelf life, which is crucial for food security and supply chain efficiency. The findings also contribute to the growing body of knowledge on the application of irradiation in agriculture, offering a sustainable and effective alternative to chemical sprout inhibitors. This work could serve as a foundation for further research into optimizing irradiation techniques for other root and tuber crops.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title is clear and informative but could be refined for better clarity and engagement. Here's a suggested alternative: "Influence of Gamma Irradiation and Storage Duration on the Sprouting Behavior of Cocoyam Corms"	
<b>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.</b>	<p><b>Additions:</b></p> <ol style="list-style-type: none"> <li>Background/Objective: Begin with a brief statement on why the study is important, such as the challenges of sprouting in stored cocoyam corms and the potential role of gamma irradiation in addressing this issue.</li> <li>Methods Summary: Include a concise mention of the statistical methods or experimental design (e.g., randomized design, replicates).</li> <li>Results Details: Mention the specific statistical findings (e.g., percentage reduction in sprouting at each dose or the mean sprouting rates).</li> <li>Conclusion: End with a statement on the practical implications, such as how this technique can benefit agricultural storage practices or food security.</li> </ol> <p><b>Deletions:</b></p> <ul style="list-style-type: none"> <li>Avoid redundancy in stating the results. For example, if the decrease in sprouting with higher doses is already mentioned, it need not be repeated in different ways.</li> </ul>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript appears to be scientifically sound and well-grounded in its methodology and conclusions. The study design involving different gamma irradiation doses and the analysis of their effects on cocoyam sprouting is appropriate for addressing the stated research objective. The use of statistical analysis to demonstrate significant differences between treatments adds credibility to the findings.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Yes	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Yes	
<b>Optional/General</b> comments	There do not appear to be any explicit ethical concerns in this manuscript. However, it is important to ensure that the following aspects are addressed according to standards: Use of Radiation PLEASE SEE ATTACHMENT	

#### 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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

#### Reviewer Details:

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