

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_127896
Title of the Manuscript:	Mutation breeding for genetic improvement and the development of high yielding mutant variety of sesame (Binatil-3)
Type of the Article	Original Research Article

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 valuable for the scientific community as it highlights the potential of gamma-ray-induced mutation breeding in improving sesame yield and other agronomic traits. The development of the mutant variety Binatil-3 showcases a practical approach to address challenges like low yield and susceptibility to pests and diseases in sesame. The detailed study provides insights into how induced mutation can create variability and improve crop performance. However, the manuscript could include more details about the scalability and long-term impact of the findings.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title "Mutation Breeding for Genetic Improvement and the Development of High Yielding Mutant Variety of Sesame (Binatil-3)" is informative and suitable.	
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.	The abstract is comprehensive but could be improved by clearly stating the significant traits enhanced in Binatil-3, along with the key results, such as yield increases compared to controls. Additionally, highlighting the impact of pest resistance on production would strengthen the abstract.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically robust and technically sound. It provides a detailed description of the methodology, including the use of gamma irradiation and multi-location trials, ensuring reproducibility. The statistical analyses are appropriately used to validate the findings. However, the manuscript could be enhanced by discussing the broader applicability of the findings in different agro-climatic zones or with other sesame varieties.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient and relevant, though some more recent studies (post-2020) on mutation breeding and sesame improvement could be included. This would make the manuscript more current and impactful.	
Is the language/English quality of the article suitable for scholarly communications?	The language is clear but could benefit from minor editing to improve fluency and avoid repetitive phrases.	
Optional/General comments	Consider including a section on future prospects or research directions based on the findings.	

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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:

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