

Review Form 3

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| Journal Name: | Journal of Advances in Biology & Biotechnology |
| Manuscript Number: | Ms_JABB_130313 |
| Title of the Manuscript: | IMPACT OF PLANT GROWTH REGULATORS AND BIO STIMULANTS ON FLOWERING AND YIELD OF RIDGE GOURD (Luffa acutangula L.) |
| 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.
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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> |
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| 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. | Due to the fact that it addresses the critical role of plant growth regulators and biostimulants in optimizing the flowering and yield of ridge gourd, the manuscript holds significant importance for the scientific community. By providing insights into the synergistic effects of biostimulats, the study contributes to sustainable agricultural practices, highlighting cost-effective and eco-friendly solutions for enhancing productivity. In the actual conditions of rapid climate changes, the findings serve as a valuable reference for further research on the impact of biostimulants in diverse agro-climatic conditions, promoting informed decision-making for agricultural researchers and farmers. Moreover, the study represents a foundation for advancing crop management strategies aimed at improving the ability of plants to adapt to abiotic and biotic stress. | The findings highlight the potential of combining ethrel and humic acid as an effective strategy to improve flowering parameters, fruit set and overall yield. |
| Is the title of the article suitable? (If not please suggest an alternative title) | The title of the article, "Impact of Plant Growth Regulators and Bio Stimulants on Flowering and Yield of Ridge Gourd (<i>Luffa acutangula</i> L.)", is appropriate as it reflects the main focus of the research. It clearly mentions the key variables studied (plant growth regulators, biostimulants, flowering, and yield) as well as the specific crop being investigated (ridge gourd). But in order to assure that the title reflects exactly the topics of the research I suggest the following title: "Study on the Synergistic Effects of Plant Growth Regulators and Biostimulants on Flowering and Yield of Ridge Gourd (<i>Luffa acutangula</i> L.)" | The title of the article was changed to STUDY ON THE SYNERGISTIC EFFECTS OF PLANT GROWTH REGULATORS AND BIOSTIMULANTS ON FLOWERING AND YIELD OF RIDGE GOURD (<i>Luffa acutangula</i> L.) as per suggestion |
| 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 of the article is comprehensive as it provides an overview of the research, including the objective, experimental design, treatments, key findings, and conclusions. It effectively summarizes the study's focus on the impact of plant growth regulators and biostimulants on flowering and yield in ridge gourd. Deletion: the title should not appear in the abstract. Instead brifly present the practical implications of the results, such as their relevance to sustainable farming practices or commercial agriculture. | As per suggestion the title of the article was deleted in the abstract. |
| Is the manuscript scientifically, correct? Please write here. | The manuscript exhibits a strong foundation of scientific rigor and technical accuracy. The research topic is clearly defined, the methodology is appropriate and thoroughly described, and the data analysis is comprehensive. Observations are made on multiple parameters, including flowering traits, yield, and plant growth, providing a comprehensive dataset for analysis. Still, in the manuscript the authors attributes observed effects (e.g., improved yield) to specific biochemical mechanisms but does not provide experimental evidence for these claims. Further studies on the physiological or molecular changes induced by the treatments would strengthen these assertions. The data from tables are detailed but could be supplemented with graphs or charts to better illustrate the differences between treatments. Include graphs or charts to visually represent key findings such as yield differences or flowering ratios. | Yes, the manuscript is scientifically correct and follows appropriate statistical analysis and detailed methodology. |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references in the manuscript are generally sufficient and provide support for the study's methodology, discussion, and conclusions. | Enough |
| Is the language/English quality of the article suitable for scholarly communications? | yes | Good |
| Optional/General comments | | |

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> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | No |