|  |  |
| --- | --- |
| Journal Name: | [**Asian Journal of Research in Biochemistry**](https://journalajrb.com/index.php/AJRB) |
| Manuscript Number: | **Ms\_AJRB\_138607** |
| Title of the Manuscript: | **Effect of IBA, Aspirin and Natural plant extracts on Rooting of Chrysanthemum (Dendranthema grandiflora L.) cv. Flirt** |
| Type of the Article | **Original Research Article** |

|  |  |  |
| --- | --- | --- |
| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **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 relevant to the scientific community because it combines synthetic hormones and natural substances in improving the rooting of ornamental plants *Dendranthema grandiflora* L.. This is important for organic plant propagation and supports sustainable agriculture. The use of natural materials such as aloe vera, garlic, and aspirin has the potential to replace hazardous chemicals in horticultural plant propagation. Although the results obtained still show the use of the addition of Aspirin shows significantly better results. | Naturally available plant extracts and products are organic, non-toxic, readily available at low cost and contain phytohormones and active compounds stimulating rooting in cuttings, infection prevention and support plant growth. These can be used as effective alternatives of synthetic rooting hormones that are expensive and toxic to plant environment at high concentrations. Thus, this opens up many opportunities for further research in future for use of plant extracts and natural products in commercial propagation of floricultural crops. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | This title is very good, but it should be more concise and scientific especially the condition of the controlled treatment and conducted in polyhouse conditions.  “Influence of IBA, Aspirin, and Natural Plant Extracts on Rooting of Chrysanthemum Cuttings under Polyhouse Conditions” | Yes, the Title is suitable: Effect of IBA, Aspirin and Natural plant extracts on Rooting of Chrysanthemum (*Dendranthema grandiflora* L.) cv. Flirt |
| **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 too long and narrative. Some numeric data can be abbreviated. The abstract should be structured by referring to the IMRAD structure (Introduction, Methods, Results, Conclusion) and the statistical methods used in this study. The writing can be more to the point. | Abstract is now comprehensive. No addition or deletion of any points as its within 250 words. |
| **Is the manuscript scientifically, correct? Please write here.** | The experimental method is described in detail, and ANOVA is used to analyze the data. However, there is no clear ANOVA table, and the discussion is less critical in comparing the results with previous literature. If the results are significant at 5%, is there no comparison test between treatments? The literature review still relies too much on old citations. | Yes |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Many references are still from theses or old conferences. Some are dominated by outdated citations (many from the 1990s or early 2000s). It is advisable to add recent references from reputable international journals such as Scientia Horticulturae, Plant Growth Regulation, Asian Journal of Research in Biochemistry, or Journal of Plant  Physiology. | Yes |
| **Is the language/English quality of the article suitable for scholarly communications?** | English is fairly understandable, but sentence structure is still repetitive and long. Too many passive sentences are distracting. Use of technical terms needs to be consistent. | Yes |
| **Optional/General** comments | Manuscripts are stronger when they include graphs/tables of inferential statistics (not just descriptive data). It is important to convey the practical implications of the research results in a more in-depth discussion.  This manuscript is scientifically solid and has the potential to be published after revision. However, major weaknesses are in the English language, the quality of references, and the lack of in-depth discussion. Substantial major revision is needed. |  |

|  |  |  |
| --- | --- | --- |
| **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | No |