

Review Form 3

| | |
|--------------------------|--|
| Journal Name: | Journal of Advances in Biology & Biotechnology |
| Manuscript Number: | Ms_JABB_121213 |
| Title of the Manuscript: | Effect of Different Growth Regulators on the Rooting of Hardwood Cuttings of Bougainvillea var. "Mohan" |
| Type of the Article | Original Research Article |

Review Form 3

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>The Bougainvillea plant is a widespread climber and shrub, and the rooting problem of cuttings is one of the most challenges facing the producers of this plant. It is good that this study used three types of auxins to root the cuttings. It would have been better to use new types of auxins. The types used here were used in similar concentrations on the same plant with different cultivars. The recorded measurements are few, there are measurements that were neglected such as the fresh and dry weight of the roots and the formed leaves, the survival percentage, and the anatomy of the cuttings before and after treatment with auxin. The climate conditions in which the experiment was carried out, the characteristics of the propagation media, and the statistical analysis method used were not mentioned. There are many sentences that need references. The research problem was not explained in the introduction, nor was there any reference to previous related studies.</p> | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>No Please write the Genus name in the title If the authors want to mention the name of the Variety in the title, the scientific name should be written in full and correctly.</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 is not comprehensive:</p> <ul style="list-style-type: none"> • An opening sentence should be written about the importance of the plant and the importance of improving its propagation. • The treatments of auxins must be described. What growth regulators are used and what is their concentration? • The containers, the planting media, and the conditions for incubating the cuttings should be mentioned briefly. • This is the first mention of the auxin's abbreviations, so the full name should be mentioned. • It is preferable to use the unit mg/L, which is equivalent to the unit parts per million (ppm). Expression in ppm is considered a somewhat old unit. • There are clear differences between the recorded characteristics for each treatment and each concentration. What recommendation do the authors consider useful for the farmer who wants to produce this plant (<i>Bougainvillea glabra</i> var. 'Mohan') early? This recommendation can be written here in the Abstract as well as other recommendations that the authors believe demonstrate the applicable importance of their results. | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>No The Materials and Methods and Results sections need sub-sections.</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>In the Introduction section:</p> <ul style="list-style-type: none"> • Scientific names must be in italics. • Please add recent references in the marked spaces in the attached file. • There are sentences that need references, please add them, I have highlighted them in the attached file. • Abbreviate the genus name (<i>B. glabra</i> etc.). • The authors have exaggerated the importance of the plant and have not mentioned any information about the problem of the present study. Rooting of cuttings in <i>Bougainvillea</i> is quite difficult and there are many studies that have done anatomical and hormonal studies to explain this. This should be mentioned in detail in a separate paragraph here. Please see this recent work: <i>Horticulturae</i> 2022, 8(12), 1156; https://doi.org/10.3390/horticulturae8121156 • IAA and IBA are also used commercially in the field and in tissue culture, and this | |

Review Form 3

| | | |
|---|--|--|
| | <p>should also be noted in the Introduction section.</p> <ul style="list-style-type: none"> The introduction cannot end like this. Please explain the importance of the current study and the purpose of the experiment. <p>In the Materials and methods section:</p> <ul style="list-style-type: none"> Please add location coordinates (longitude and latitude) of the experimental site. Please note that Thickness is written in centimeters like length. Please note that: 1 mg/L = 1 part per million (ppm) for dilute aqueous solutions. The authors probably mean 1 g/L. Please revise and correct. Hormone concentrations are better stated later, please delete this from here (the 1st paragraph). The name and country of the company of the growth regulator must be mentioned. What are the details of the propagating media, the planting containers used, the conditions for incubating the cuttings, the temperature, humidity, lighting, etc.? How was the data statistically analyzed? What is the method followed and what software was used? <p>In the Results and Discussion section:</p> <ul style="list-style-type: none"> There are sentences that need references, please add them, I have highlighted them in the attached file. The authors used 3 types of auxins and there are significant differences in the rooting response of the cuttings for these types. What is the reason for the superiority of IBA over the other types in most variables (according to the authors' conclusion)? It is known that IAA is naturally present and therefore there is an internal enzyme that breaks it down and reduces its activity, what about auxin NAA which is synthetic? This should be explained with relevant references. Tables should be referred to between the text in relevant sentences. Table title is not appropriate. The title should state the treatments used, the recorded parameters and the plant name, for example: Effect of different auxins on rooting percentage, roots number, root length of <i>B. glabra</i> var. 'Mohan' cuttings. In the two tables, explain the abbreviations in the table footer. | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>=</p> | <p>No</p> <p>The authors can see these references: https://link.springer.com/content/pdf/10.1007/978-981-15-1554-5_2-1.pdf https://doi.org/10.3390/horticulturae8121156</p> <p>Scientific names should be written correctly in the titles of references, with only the first letter of the genus name in capital letters and the scientific name in italics. References should also be formatted according to the journal's requirements.</p> | |
| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>Yes</p> | |
| <p>Optional/General comments</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> | |

Review Form 3

Reviewer Details:

| | |
|----------------------------------|-----------------------------------|
| Name: | Ahmed Abdelfattah Elateeq |
| Department, University & Country | Al-Azhar University, Egypt |