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##### **CHECKLIST FOR REVIEWERS**

**Title of the manuscript:** **ADVENTITIOUS SHOOTS INDUCTION of *AMARANTHUS CRUENTUS* L. *in vitro***

**Author (s):** **Alena Gajdošová1\*, Gabriela Libiaková1, Ivan Iliev2 and Andrea Hricová1**

# No of the manuscript: ……JPOP…694………………………..

Deadline for the receiving of your review: 30 days after the receiving of the manuscript

**Please consider main points A and B. Please DO NOT CONTINUE TO REVIEW the manuscript if:**

**- the answer to point A.1 is NO**

**- the answer to point A.2 is YES**

**- the answer to point B is LOW.**

**A. Relevance of the paper.**

***1. Is the subject of the manuscript within scope of the journal?***

**X** Yes

**□** No

***2. Previous publication of the material***

**X** No

**□** Yes. What and where………………………………………………………………...

…………………………………………………………………………………………..

### B. Scientific and practical importance of the data

**□** High

**□** Adequate

**X** Low – See comments

### C. Scientific quality

***1. Are the data in this manuscript new?***

**X** Yes

**□** No. Comments:…………………………………………………………………………

***2. Is the manuscript clearly written and well-organized?***

**□** Yes

**X** No. Comments:…………………………………………………………………………

***3. Are the Abstract and the Key words adequate?***

**X** Yes

**□** No. Suggestions:…………………………………………………………………………

***4. Does the Introduction state the aim of the research and present knowledge?***

**X** Yes

**□** No. Comments:…………………………………………………………………………

***5. Materials, methods and study design***

**□** Adequate

**□** Improvement needed. Suggestions:………………………………………………

**X** Inadequate. Comments:…Epicotyls with shoot meristem are compared with hypocotyl and root segments without meristems. Why the shoot meristem was not eliminated? The data collection and evaluation is incompletely described. Is the number of explants forming adv. Shoots evaluated or the total number of shoots or what?………………………………………………………

***6. Results and Discussion***

**□** Properly drawn with regard to methods and data

**□** Should be adjusted – Suggestions: ………………………………………………….

…………………………………………………………………………………………..

**X** Insufficiently supported – Comments: The text contains additional information as percentage of reacting explants. Better would be the presentation in a table as well. Much text is spent to describe apical shoot growth that would not occur when shoot meristem was eliminated. Especially the extended description and discussion of flowering is not related to the topic of the paper. The mix of own results and discussion makes it difficult to follow the outline of the study especially because some subcultures are described. The histological study gives no answer on the origin of the adv. Shoots but this conclusion is missing ……………………………………………..

………………………………………………………………………………………….

***7. Are the tables and figures titles and legends presented well and necessary?***

**□** Yes

**□** Improvement needed. Suggestions:……………………………………………………

**X** No. Comments:…evaluated parameter is not clearly described………………………………………………………………………

***8. Data and statistical treatment***

**□** Adequate

**X** Improvement needed. Comments: some data are not evaluated as number of callus forming explants, number of elongated shoots……………………………………………………

**□** Inadequate. Comments:………………………………………………………………

***9. Have all relevant literature been cited***

**X** Yes

**□** No. Suggestions:…………………………………………………………………….

**E. Recommendations (after corrections)**

□ The paper should be published as it is now, or with minor editorial changes

□ The paper could be published after minor revision, and need not be re-reviewed

X The paper could be accepted after major revision according to the comments

□ Rejected

#### If adjustments or revision is recommended

X The writer is allowed to contact me (sign both copies of this checklist)

□ I want to be anonymous (sign only one copy of this checklist)

□ I am not willing to review this paper again (revision)

Please add further comments.

Maybe I do not have the right view on this study but I think the presentation of the results should be reorganized to highlight the value of this study. More data should be presented in tables. The discussion is sometimes more confusing than clarifying as the comparing of your observation with cytokinin media with results from 2,4D medium.

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