

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_121454
Title of the Manuscript:	Effect of chemical mutagens on growth of chrysanthemum (<i>Dendranthema grandiflorum</i>) var. Flirt
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The manuscript is written well and good to be documented in scientific journal to be read by research students who want to work on mutation breeding.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is 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.	Abstract is comprehensive	
Are subsections and structure of the manuscript appropriate?	All sections are written well	
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.	The research work on EMS and colchicine mutation is conducted well. Author has recorded data well. Although I miss some more statistical analysis on the data. Now – a days there are free statistical softwares like R is available, authors may try to use that for better presentation of their data.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Review comments on the manuscript “Effect of chemical mutagens on growth of chrysanthemum (<i>Dendranthema grandiflorum</i>) var. Flirt”</p> <ol style="list-style-type: none">1. “Both E.M.S. and colchicine treatments resulted in a significant reduction among parameters,”: can you please specify which parameters ?2. “alkylating mutagenic chemical generally in liquids, highly soluble in organic”: Organic solvent you mean?3. Can you describe in detail how did you make the EMS and colchicine solutions for mutagenesis ?4. “300:200:200 kilograms per hectare (???) of NPK (Nitrogen, Phosphorus, and Potassium) respectively” : why the amount kg / hectre is in ratio?5. disbudding operations : you may explain this6. “maximum plant height of chrysanthemum plant height” repetition of Plant height7. “This issue may arise from chromosomal aberrations and disruptions in the synthesis of auxins with increase in E.M.S concentration” : not clear <p>Table 1 legend : Effect of chemical mutagens on growth of chrysanthemum (<i>Dendranthema grandiflorum</i>) variety Flirt. : Please mention what is SE, what is CD</p> <p>Several time author mentioned “statistically superior data”: It would be good to test ANOVA on your data to see if the differences in morphological parameters are statistically significant.</p> <p>It would be nice to mention how did you measure the plant spread and plant height.</p> <p>I am just curious to know what happened to the plants later on ? did they produce flowers , did you notice any difference in their flowers? You may add this information in your manuscript to add more values to your research.</p> <p>Vaidya P P, Dalal S R and Mahadik M K. (2016). Vegetative mutagenesis studies in Chrysanthemum. <i>Advances in Life Sciences</i>. 5(12):4831-4835: this reference is repeated two times in reference list.</p> <p>Padmadevi K and Janaharlal M. (2011). Induction of in vitro mutation in chrysanthemum (<i>Dendranthema grandiflora</i> Tzvelev) ray florets (var. Ravi Kiran) using gamma rays and EMS. <i>Floriculture and Ornamental Biotechnology</i>. 5(1):74-77. : please write <i>Dendranthema grandiflora</i> in italics</p> <p>Write <i>Praecitrullus fistulosus</i> in italics</p>	

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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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