

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_123454
Title of the Manuscript:	Genetic Variation for Tolerance to High Temperatures in Tomato Using Critical Sterility Temperature.
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. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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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>
<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>This study highlights the importance of developing heat-resistant tomato genotypes, as temperatures above 36°C negatively affect pollen germination and consequently yield. Incorporating this information into breeding programs could enhance production in warm climates, ensuring crop stability in the face of climate variability.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the article is appropriate.</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 adequately states the authors' intention.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes, it is appropriate.</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>This manuscript is scientifically robust and technically sound because it presents a well-defined experimental approach, focusing on a critical aspect of tomato reproduction—pollen germination—under varying temperature conditions. The selection of multiple genotypes enhances the study's relevance by accounting for genetic variability, and the use of in-vitro pollen germination assays provides precise and controlled measurements. Furthermore, the identification of a critical temperature threshold (36°C) offers clear, actionable insights for breeding programs aimed at improving tomato resilience in response to temperature stress. The results are relevant for addressing real-world agricultural challenges posed by climate change.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The references are current and very broad.</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, it is.</p>	
<p>Optional/General comments</p>	<p>The manuscript offers valuable insights into how temperature affects tomato pollen germination, contributing to the broader understanding of plant reproduction under environmental stress. The study's findings could be particularly useful for improving crop resilience and yield stability in the face of rising global temperatures. Its practical applications in breeding programs make it relevant to both researchers and agricultural practitioners aiming to mitigate the impacts of climate change on food production.</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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