

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_121120
Title of the Manuscript:	IMPACT OF COMBINATIONS OF DIET AND LARVAL REARING TEMPERATURE ON DURATION OF LARVAL , PRE PUPAL AND PUPAL STAGES OF BLACK SOLDIER FLY, Hermetia illucens L. (STRATIOMYIDAE: DIPTERA)
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 (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>This manuscript is significant for the scientific community as it provides valuable insights into optimizing the rearing conditions of the black soldier fly, an important species for waste management and sustainable protein production. By elucidating the effects of diet and temperature on the developmental stages of <i>Hermetia illucens</i>, the study contributes to improving the efficiency of organic waste conversion and insect farming practices. I appreciate the thorough experimental design and detailed analysis, which offer practical guidelines for enhancing black soldier fly cultivation. However, the manuscript could benefit from a deeper exploration of the underlying biological mechanisms influencing the observed effects.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title " Impact of Combinations of Diet and Larval Rearing Temperature on Duration of Larval , Pre Pupal and Pupal Stages of Black Soldier Fly, <i>Hermetia illucens</i> L. (STRATIOMYIDAE: DIPTERA)" is suitable as it accurately reflects the main focus and purpose of the research article.</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 of the article is comprehensive but could benefit from some revisions for clarity and conciseness. Here are some suggestions: Clarity: Specify the research aim clearly. Conciseness: Remove redundant phrases. Details: Provide more specific results and their implications.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Overall, the structure and subsections are appropriate for a research article. Improving clarity and adding a bit more detail in certain sections, as mentioned above, would further enhance the manuscript's quality.</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 due to its well-structured experimental design, including the use of a two-factorial completely randomized design with multiple diets and temperatures. The study provides comprehensive data on the impact of these variables on the developmental stages of the black soldier fly, backed by rigorous statistical analysis. Additionally, the methodology is detailed and replicable, ensuring that the findings are reliable and can be validated by other researchers. The results are discussed in the context of existing literature, demonstrating a thorough understanding of the subject and contributing valuable insights to the field.</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 in the manuscript are generally sufficient and include relevant sources. However, a few references appear outdated or lack recent context. Adding more recent studies could enhance the manuscript's scientific rigor. Here are some suggestions for additional references:</p> <ol style="list-style-type: none"> 1. Barragán-Fonseca, K. B., Dicke, M., van Loon, J. J. A. (2017). Nutritional value of the black soldier fly (<i>Hermetia illucens</i> L.) and its suitability as animal feed – a review. <i>Journal of Insects as Food and Feed</i>, 3(2), 105-120. 2. Gold, M., Tomberlin, J. K., Diener, S., Zurbrügg, C., Mathys, A. (2018). Decomposition of biowaste macronutrients, microbes, and chemicals in black soldier fly larval treatment: A review. <i>Waste Management</i>, 82, 302-318. 3. Nyakeri, E. M., Ogola, H. J., Ayieko, M. A., Amimo, F. A. (2017). An open system for farming black soldier fly larvae as a source of proteins for smallscale poultry and fish production. <i>Journal of Insects as Food and Feed</i>, 3(1), 51-56. <p>Including these recent studies can provide a broader and up-to-date context for your research and further validate the findings.</p>	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Some sentences and paragraphs are lengthy and could be broken down into shorter, more concise statements. This would improve readability, especially for readers who may not be familiar with technical terminology. While the overall grammar and syntax seem fine, careful proofreading for minor errors such as punctuation, tense consistency and sentence structure would polish the language quality further. Overall, with attention to these areas, the language and English quality of the article can be optimized for scholarly communication, making it more accessible and engaging for readers across different backgrounds.</p>	
<p><u>Optional/General</u> comments</p>	<p>Here are some optional/general comments to consider for further improving the manuscript:</p> <ol style="list-style-type: none">1. Visuals and Tables:<ul style="list-style-type: none">○ Ensure that all tables and figures are clear, labeled correctly and referenced in the text. Verify that they effectively illustrate the key findings of your study.○ Consider including additional figures or graphs if they can provide clearer insights into the data.2. Consistency:<ul style="list-style-type: none">○ Maintain consistency in the formatting of headings, subheadings, and text throughout the manuscript.○ Ensure uniformity in the use of units and measurements.3. Statistical Analysis:<ul style="list-style-type: none">○ Provide a brief description of the statistical methods used including any software or tools employed for analysis.○ Ensure that statistical terms are used correctly and clearly explained.4. Literature Review:<ul style="list-style-type: none">○ Incorporate recent studies and reviews related to black soldier fly research to provide a more comprehensive background and context.○ Compare your findings with those of recent studies to highlight any new insights or discrepancies.5. Practical Implications:<ul style="list-style-type: none">○ Elaborate on the practical implications of your findings for commercial black soldier fly farming and waste management.○ Discuss how your research could influence future practices or policy in this field.6. References:<ul style="list-style-type: none">○ Double-check all references for accuracy and completeness. Ensure that citations are formatted according to the journal's guidelines.○ Consider adding more recent or relevant references if they can strengthen the context of your study.7. Proofreading:<ul style="list-style-type: none">○ Conduct a thorough proofreading to eliminate any typographical or grammatical errors.○ Consider having a colleague or a professional editor review the manuscript for clarity and coherence.	

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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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