

**Review Form 3**

Journal Name:	<b>Journal of Advances in Biology &amp; Biotechnology</b>
Manuscript Number:	<b>Ms_JABB_121243</b>
Title of the Manuscript:	<b>Activity of key enzymes in the late V instar of silkworm (<i>Bombyx mori</i> L.); an important assesment criteria in silkworm breeding for stress tolerance</b>
Type of the Article	

### Review Form 3

#### **PART 1: Review Comments**

<u>Compulsory</u> 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 significant for its exploration of enzyme activity in thermotolerant silkworm breeds under <i>*Beauveria bassiana*</i> infection. The study provides valuable insights into the physiological responses of these breeds, highlighting potential improvements for sericulture. I appreciate the detailed biochemical analysis, though the presentation could be more concise.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title should be concise and clearly convey the main focus of the study. An alternative title could be:  "Enzyme Response in Thermotolerant Silkworm Breeds Under <i>*Beauveria bassiana*</i> Infection"  This title succinctly highlights the key aspects of the study: enzyme activity, silkworm breeds, and the pathogen involved.	
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.	The abstract provides a good overview but could be more concise. Here's a shortened version:  "This study investigates enzyme activity in thermotolerant silkworm breeds B1, B4, and B8, compared to the muscardine-susceptible breed CSR4, under <i>*Beauveria bassiana*</i> infection. Silkworms were inoculated and enzyme activities (amylase, protease, trehalase) in haemolymph were measured at 48, 96, and 144 hours post-inoculation. Results showed increased enzyme activity, particularly in B1 and B4 breeds, correlating with better survival and economic traits. These findings suggest potential for these breeds in breeding programs for developing robust silkworm varieties."	
Are subsections and structure of the manuscript appropriate?	Yes	
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 manuscript is scientifically robust due to its clear objectives and structured experimental design. It uses multiple silkworm breeds and controlled conditions to ensure reliable results. The thorough biochemical analysis of enzyme activities and their correlation with survival and economic traits add depth to the findings, supporting the validity of the conclusions.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
<u>Minor</u> REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments	The manuscript offers valuable insights into enzyme responses in silkworm breeds under <i>*Beauveria bassiana*</i> infection. The methodology and analysis are solid, though clarity could be improved with summary tables or diagrams. Including a discussion on limitations and future research directions would enhance the manuscript further. Overall, it is a well-conducted and practical study.	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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