

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_103872
Title of the Manuscript:	Response of Silkworm (<i>Bombyx mori</i> L.) Breeds to Temperature and BmNPV Stress
Type of the Article	Original Research Article

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

Review Form 1.7

PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>This manuscript is very interesting experiment. However, the manuscript should be re-vised.</p> <p>- No it is not</p> <p>No, they are not. (see reviewer's comments below</p> <p>The manuscript should be re-write and add more information of experiment (some suggestion below)</p> <p>No they are not. The references in this manuscript are quite old and some of them are not related to this manuscript.</p> <p><u>suggestion references;</u> 1) L.Vijaya Lakshmi & V Sivaprasad & P Sujathamma, 2014. Studies on Seasonal Performance of Newly Developed Bivoltine Silkworm (Bombyx Mori L) Hybrids Tolerant To BMNPV and Effect of Temperature on Disease Induction Animal Review, Conscientia Beam, vol. 1(4), pages 57-64. 2) Raymond J. St. Leger. 2021. Insects and their pathogens in a changing climate .Journal of Invertebrate Pathology. 184, 107644 https://doi.org/10.1016/j.jip.2021.107644 3) Zhong-Jian Shen, Yan-Jun Liu, Jie Cheng, Zhen Li, J.P. Michaud, Xiao-Xia Liu. 2022. High temperature exposure reduces the susceptibility of <i>Helicoverpa armigera</i> to its nucleopolyhedrovirus (HearNPV) by enhancing expression of heat shock proteins. Pest Management Science; https://doi.org/10.1002/ps.6868</p> <p>Additional comments;</p> <p><u>Materials and methods</u></p> <p>There are some methods points to be considered;</p> <p>1. silkworm eggs should be disinfection to avoid BmNPV contamination (transovarial transmission), to be sure that silkworm eggs were viral free</p> <p>2. Variation of temperature should be varied for example 25, 30,35,40 ? since nowadays the global climate (temperature has been increasing about 38-40 degree Celsius (in the summer time)</p> <p>3. it is not clear if the silkworms were starved or still feeding during getting exposed in 25,30 degree Celsius and the timing of incubation should be mentioned in materials and methods (2.2 infectivity technique)</p> <p>4. How many times of BmNPV inoculation ? (after 3rd and 4th moult= the 4th and 5th instar larva) is it 2 times? - silkworms were inoculated by BmNPV once and then data of mortality can be observed until at pupa stage - giving the reason (explain or discussion) why did author inoculate BmNPV at 5th instar (4th moult)</p> <p>5. at what day? For example, the 4th instar at what day? And the 5th instar at what day ?</p>	

Review Form 1.7

	<p>6. How did author (s) do sterilized of mulberry leaves? It should be explanation more (in method part).</p> <p>7. author (s) should explain more about BmNPV inoculation , how is the size of the mulberry leaves? And how long time to allow inoculation leaves to be dried</p> <p>8. PIB (polyhedra inclusion body) or OB (occlusion body) PIB/ml or OB/ml</p> <p>9. concentration of BmNPV at 1×10^3 PIB/ml is quite low amount, did author(s) used by LC50? (reference?)</p> <p>10. the experimental design should be done with negative control , for example; T1 = 25 °C +BmNPV T2 = 30 °C +BmNPV T3= BmNPV only (negative control) T4 = control (silkworm fed mulberry leave without BmNPV treated)</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>		

PART 2:

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

Reviewer Details:

<p>Name:</p>	<p>Siripuk Suraporn</p>
<p>Department, University & Country</p>	<p>Maharakham University, Thailand</p>