



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_30202
Title of the Manuscript:	A Novel Non-Invasive Approach to Detect Cellular Signals of Oxidative Stress due to Extreme Environmental Temperatures in Backyard Broiler from Arid Tracts in India
Type of the 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	The Introduction section needs to be re-written. The claim by the authors that there is scarcity of research regarding the effects of thermal stress on broiler's production is incorrect. There are a lot of studies dedicated to investigating this topic. The author stated that this is a non-invasive method to measure cellular signals of oxidative stress. While the reviewer understands the basis of these claims, the procedure of getting the blood samples to measure both enzymes still considered as invasive. Please re-phrase the title and also the objective of this study. Please clarify the ethical issue: No animal ethic approval is found. Please provide the approval if any. The authors fail to present ethical approval documentations to support this study. There are no control animals used in this study to establish normal baseline parameters of both GGT and MAO. Without these control animals, it is difficult to compare the results obtained from the experimental animals and the normal parameters (e.g. what value constitutes a high GGT and MAO levels that represent oxidative stress?)	
Minor REVISION comments	For the Materials and Method section, please justify how the authors came out with the classification of cold, moderate and extreme temperatures? Any	



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	previous studies or protocols referred to? If yes, please explain in brief and justify.	
<u>Optional/General</u> comments	This paper although strongly contribute towards the advancement of science, fails to sufficiently address some critical issues that requires attention. 1) The abstract and Introduction part needs to be re-written. 2) The Materials and Method section is not clearly written. The authors need to strongly explain the experimental design if they have came up with their own methods. If they use an experimental design taken from a previous study or protocols, they need to state it the manuscript. 3) The figures and tables of results need to highlight significant results that contribute to the conclusion of the study. Agreed that it is stated in the Discussion but some readers might want to know the answer straight from the tables or figures. 4) The discussion is to general. The authors should discuss more on the results and the relationship with the objective more critically. 5) The paper should be read and commented by a native English speaker before submission since there a lots of grammatical errors in this manuscript.	

Reviewer Details:

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