

Review of: "Honey bee sHSP are responsive to diverse proteostatic stresses and potentially promising biomarkers of honey bee stress"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

This paper is a study of honey bees, data provide evidence that sHSP genes are upregulated by the Unfolded Protein Response. As these genes appear to be part of a core stress response that could serve as a useful biomarker for cellular stress in honey bees, we designed and tested an RT-LAMP assay to detect increased efl gene expression in response to heat stress.

I enjoyed the work, the whole article reads smoothly written, the workload is relatively high, and the evidence is substantial. However, I think the layout of the charts in the article is not aesthetically pleasing, especially the charts for the quantitative data, which could have been represented in the form of a heat map due to the high volume of quantitative data.

Overall, I enjoyed the work and after revisions, it can be accepted and published in the scientific reports journal.