

**Review Form 3**

Journal Name:	<b>Annual Research &amp; Review in Biology</b>
Manuscript Number:	<b>Ms_ARRB_122353</b>
Title of the Manuscript:	<b>Sustainable Bioprospecting: Utilizing Traditional Knowledge for Responsible Development of Insect-Derived Therapeutics</b>
Type of the Article	<b>Review Article</b>

## Review Form 3

### PART 1: Review Comments

Compulsory 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>
<p><b>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.</b></p>	<p>The manuscript addresses the integration of traditional knowledge, specifically the use of insects in medicine, into modern pharmaceutical research. This is an important and emerging area in ethnomedicine that could lead to sustainable and novel therapeutic solutions. The manuscript's contribution lies in highlighting underexplored insect species used in traditional medicine, which may have pharmacological potential. <b>However, the manuscript should clearly specify the scientific significance of these insects compared to existing medicinal resources, ensuring that the importance is not overstated.</b></p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title is appropriate and accurately reflects the manuscript's content. However, a slight modification could improve clarity, such as "<b>Bioprospecting Traditional Insect-Based Medicines for Sustainable Therapeutic Development.</b>" This revised title emphasizes both the traditional and modern aspects of the research, making the focus clearer.</p>	
<p><b>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.</b></p>	<p>The abstract provides a good overview but could be improved by explicitly stating the research gap that this study addresses. <b>For example, it should mention how the study fills the gap in integrating traditional knowledge of insects into modern pharmacological research.</b> Additionally, the abstract should briefly mention the <b>methodologies used to assess the sustainability and efficacy of these traditional practices, which would help in setting clear expectations for the reader.</b></p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The manuscript is logically structured, with appropriate subsections that help guide the reader through different topics. However, some subsections could benefit from clearer headings that reflect their content more accurately. For instance, the section discussing the potential pharmaceutical applications of insect-based medicines could be titled "<b>Pharmaceutical Applications and Challenges,</b>" which would immediately inform the reader of the section's focus.</p>	
<p><b>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.</b></p>	<p>The scientific content is generally robust, but the research gap in the introduction needs to be clearly defined. The manuscript mentions the untapped potential of insects in medicine <b>but does not specify why previous research has not fully explored this potential.</b> For example, the introduction could discuss the limitations of previous studies, such as a lack of systematic research into the pharmacological properties of certain insect species. Furthermore, the <b>objectives should be clearly stated to focus on how this study will address these limitations.</b> The discussion section should also critically analyze the feasibility of translating traditional knowledge into scalable pharmaceutical products, considering issues such as standardization and regulatory challenges.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> =</p>	<p>The references are relevant and include key studies in the field. <b>However, the manuscript should incorporate more recent studies, particularly those published in the last five years, to ensure that the discussion is up-to-date with the latest research trends.</b> Specific areas where more recent references would be beneficial include recent advancements in sustainable bioprospecting methods and new regulatory frameworks for integrating traditional knowledge into modern medicine.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The manuscript provides a thorough review of insect-based traditional medicines, but it would benefit from a more balanced discussion that also considers the challenges and limitations of bioprospecting these resources. For example, a section discussing the ethical considerations and potential environmental impacts of large-scale insect harvesting would add depth to the discussion.	
<b>Optional/General</b> comments	Guideline: The manuscript is well-prepared but requires minor revisions, particularly in defining the research gap, clarifying the objectives, and ensuring that the discussion is aligned with the latest research in the field (Last 5 Years). These revisions will strengthen the manuscript and enhance its contribution to the field of ethnomedicine and bioprospecting.	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<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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