

Review of: "Investigation of the families Asteiidae, Lauxaniidae, Mydidae, and Neriidae (Insecta: Diptera)"

Vattakandy Jasin Rahman

Potential competing interests: No potential competing interests to declare.

Dear Authors,

I am pleased to have reviewed the article "Investigation of the families Asteiidae, Lauxaniidae, Mydidae, and Neriidae (Insecta: Diptera)" and feel that I played a valuable role in shaping your work. I hope you will consider my suggestions, as they are intended to enhance the quality of your article.

Authors, in the article entitled 'Investigation of the families Asteiidae, Lauxaniidae, Mydidae, and Neriidae (Insecta: Diptera),' the authors gave an overview of the Asteiidae, Lauxiniidae, Mydidae, and Neriidae families within the order Diptera. Though it provides valuable information on the insects mentioned, I would like to suggest a few modifications as outlined below.

Abstract

While the abstract touches upon several aspects of these families, there are areas where it could be improved for clarity and depth.

1. **Clarity and Structure:** The abstract could benefit from a clearer structure. Each family's description should be separated into distinct paragraphs for easier readability. This separation would help readers navigate through the information more effectively.
2. **Specificity and Detail:** While the abstract provides general information about each family, it lacks specificity and detail in certain areas. For example, it mentions that adults of the Asteiidae family can be captured with Malaise traps and vacuum cleaners when congregating, but it could elaborate on the specific habitats or conditions that lead to congregation. Providing more specific details would enhance the reader's understanding.
3. **Sources and Evidence:** The abstract mentions the use of scientific articles from national and international journals as sources of information. It would be beneficial to include specific references or citations to support the statements made about each family. This would add credibility to the information presented and allow readers to explore the topic further.
4. **Future Directions:** The abstract briefly mentions the aim of the mini-review, which is to verify themes such as morphology, biology, and systematics of the mentioned families. However, it could be improved by briefly discussing potential future research directions or unanswered questions within each family. This would provide readers with a clearer understanding of the significance of the research.

5. Limitations and Considerations: The abstract briefly acknowledges a limitation of the study, which is the restriction to articles from certain electronic libraries. While this is important to mention, it could be expanded upon to discuss how this limitation may impact the comprehensiveness of the review and suggest potential ways to address it in future research.

Introduction

The introduction of the article provides a comprehensive overview of the importance of dipterans in various fields, such as medicine, veterinary science, and ecology. It effectively highlights their roles in medical and veterinary contexts, including their involvement in myiasis and pathogen transmission, which underscores their significance in public health. Moreover, the mention of their relevance in forensic entomology, larval therapy, and pollination expands the scope of their impact beyond disease transmission. The introduction adequately emphasizes the significance of dipterans in both urban and rural environments, acknowledging their potential to affect public health and agricultural practices. The mention of their impact on egg production and animal diseases in rural areas adds depth to the discussion, illustrating the broad range of consequences associated with dipteran presence. However, there are a few areas where the introduction could be strengthened:

6. Clarity and Organization: The introduction covers a wide range of topics related to dipterans, but it could benefit from clearer organization and focus. It might be helpful to briefly outline the structure of the article or provide a more explicit statement of the specific aims or objectives.

7. Sources and References: While the introduction provides general information about the importance of dipterans, it would be enhanced by referencing specific studies or sources to support the claims made. Adding citations would increase the credibility of the information presented and allow readers to explore the topic further.

8. Specificity: The introduction mentions several fields and contexts in which dipterans are important, but it could be more specific about the species or families being investigated in the article. Providing more detail about the focus of the research would help readers understand the relevance of the subsequent sections.

Objective

9. The objective provided is clear and concise, outlining the purpose of the mini-review effectively. However, it could benefit from slightly more specificity. For instance, specifying whether the review aims to provide an overview of existing literature, analyze recent advancements, or identify gaps in knowledge would enhance clarity and focus.

10. It might be beneficial to mention any specific research questions or hypotheses that the review aims to address. Clearly stating these would guide the organization of the review and provide a framework for evaluating the relevance and coherence of the content presented.

Methods

11. While the methodology employed by the authors is sound and appropriate for their research objectives, their recognition of limitations demonstrates a thoughtful approach to their study. By acknowledging potential biases and areas

for improvement, they uphold the integrity and transparency of their research process.

Conclusion

The conclusion section of the article provides a concise summary of the shared characteristics of Acalyptrates Diptera and their association with corpses. However, there are a few points that could be improved for clarity and coherence:

12. Repetition: The paragraph repeats the classification of arthropods associated with corpses into four categories without providing additional insights or elaboration. It would be beneficial to avoid redundancy and instead use this space to discuss the implications of the findings or suggest avenues for further research.

13. Clarity in Terminology: The term "adventives" might not be widely understood outside of entomological contexts. Providing a brief explanation or defining the term would enhance clarity for readers unfamiliar with the terminology.

14. Transition and Integration: The transition between discussing the shared characteristics of Acalyptrates Diptera and their association with corpses feels abrupt. It would be helpful to integrate these topics more smoothly or provide a clearer segue to connect the two discussions.

15. Citation of Recent Evidence: The statement regarding the paraphyly of Acalyptrates Diptera could benefit from citation of specific recent evidence, enhancing the credibility and transparency of the conclusion.

16. Elaboration on Significance: The conclusion could be strengthened by expanding on the significance of identifying opportunistic insects associated with pig carcasses. Discussing potential implications for forensic entomology, ecosystem dynamics, or other relevant fields would add depth to the conclusion.

Overall, the execution of the work and the sections not addressed in this review appear to be comprehensible, adequate, and thoroughly explained. I would recommend incorporating the aforementioned concerns, as doing so would enhance the presentation of the work and improve its comprehensibility for readers.

Best wishes,

Reviewer