

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

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Potential competing interests: No potential competing interests to declare.

Review:

I do not recommend this article for publication.

The article is, in general, confusing and disconnected, in addition to not following a standardization of information, looking more like a non-coherent summary of different sources of information, including some with no source at all.

Much of the information cited is visual, and the article does not include photographs, drawings, or illustrations of the structures or groups/species mentioned.

The objectives are not clear; the author sometimes makes a short review of one group but in other instances shows diagnostic morphological characters, but in others just tells some information without a source.

In the Methods section, the author does not cite the range of years of publications or the number of articles researched.

The lack of homogeneity makes the article very hard to compare between the groups proposed to be short described.

When the author says Study 1, 2, 3, etc., he could write the source of the study, not only the citation in the end.

Ex.:

Study 2 from Fernandes JM, Sousa VR, Couri MS 2023 [50].

## 3.3 Taxonomy

...for Costa Rica (antenna, expanse, and spinosa)... what do you mean by antenna, expanse, and spinosa?

## 4.3. Study 3

According to unpublished information from ichthyologists and fishermen, juvenile sturgeons, to which this specimen belonged, typically keep in shallow waters, unlike adults. A slight injury of soft tissue was seen at the base of the scute that could allow the fly to put its egg. This is most probably a case of facultative myiasis, a disease caused by the invasion and activity of larval and adult arthropods in the tissues and cavities of human or animal organisms.

How can you obtain this information?

## 6.3 Study 3

The first paragraph could be reallocated in the taxonomy section: "The Acalyptrate Diptera, ... paraphyly."

## 8.1 Study 1

A short description of the main objectives of the article is required to maintain the structure of the previous sections.

The information reported in the conclusion has no basis in the text and seems very disjointed.