

## REVIEWER'S REPORT

Manuscript No.: IJAR-52756

Date: 12/07/2025

**Title: Establishing Chironomus Larvae as an Ethically Sound and Efficient System for Early-Stage Anthelmintic Screening**

### Recommendation:

Accept as it is ☐☐☐☒..

Accept after minor revision ☐☐☐☐

Accept after major revision ☐☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality	✓			
Clarity		✓		
Significance	✓			

Reviewer Name: Sakshi Jaju

Date: 12/07/2025

### Reviewer's Comment for Publication.

#### Abstract:

The abstract gives a clear summary of the study. It explains the need for better, more ethical, and cost-effective ways to find new anthelmintic (anti-worm) drugs. It introduces Chironomus larvae (bloodworms) as a good lab model for testing early-stage drug activity. The advantages such as easy lab use, similarity to parasitic worms, and ethical benefits are well discussed. The abstract is strong but can be shortened for easier understanding.

#### Introduction:

The introduction explains that parasitic worm infections are a major global health issue, and current drugs are becoming less effective. The authors point out that traditional testing on animals is expensive, slow, and has ethical issues. They highlight the urgent need for better early screening models. This section is well written and sets the stage for the study.

#### Relevance and Contribution:

The article brings a new and valuable idea to the field of parasitology and drug discovery. It promotes the use of an invertebrate model that is easy to use, cost-effective, and aligns with ethical guidelines. This work can help speed up finding new medicines for parasitic worm infections, especially in countries like India where such infections are common.

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### Clarity and Organization:

The article is well-structured and full of useful information. However, some sentences are too long and complex. The paper would benefit from language editing to make it easier to read. Breaking long paragraphs and simplifying technical terms would improve clarity.

### Overall Assessment:

This is a highly relevant and well-researched paper. It presents a smart, ethical, and efficient method for early drug testing. With minor changes in language and structure, it is suitable for publication.

### Recommendation:

Manuscript accepted for the publication after Minor revision