



REVIEWER'S REPORT

Manuscript No.: IJAR-50734

Date: 19/3/2025

Title:

In vitro anti-sickling activities of *Sorghum bicolor* (L.) Moench

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer Name: Dr. Sumathi

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Anti sickling refers to agents or methods that prevent or counteract the sickling of red blood cells, a characteristic of sickle cell disease, and can include drugs like hydroxyurea or gene therapy approaches.

Detailed Reviewer's Report

- 1. Phytochemicals are naturally occurring chemical compounds found in plants. They serve as a defense mechanism for plants, protecting them from pests, diseases and environmental stressors.**
- 2. Sorghum bicolor, commonly known as sorghum or great millet, is a widely cultivated cereal crop, particularly in Africa, used for food, feed, and biofuel production, known for its drought and heat tolerance.**

REVIEWER'S REPORT

- 3. In vitro means in glass in latin. In scientific terms, it refers to experiments or observations conducted in a laboratory setting, outside of a living organism.**
- 4. In vitro anti-sickling activities involve studying the effects of substances on sickle cells in a laboratory setting, aiming to prevent or reverse their sickling, a characteristic of sickle cell disease.**
- 5. It refers to the ability of a substance or treatment to prevent or reduce the sickling of red blood cells, which is a hallmark of sickle cell disease.**
- 6. The goal of invitro anti sickling activity studies is to identify potential drugs, therapies, or compounds that can effectively combat the sickling process and improve the health of individuals with SCD.**
- 7. This research findings are one of the plant biotechnology research and health benefits of sorghum.**
- 8. Infirmations are given good and significant points. Can be included some more .**
- 9. Flow charts of significant points can be added.**
- 10. Tables with results and graphs, pictures are good.**
- 11. Summary parts must be included.**
- 12. References should be in alphabetical order.**
- 13. After this minor corrections can be published in your journal.**