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## REVIEWER'S REPORT

Manuscript No.: IJAR-50691

Date: 17/3/2025

### Title:

**Floral Bioactive of *Pongamia pinnata*: A Multifaceted Approach to Oxidative Stress, Inflammation, and Microbial Resist**

### 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	Excellent			
Significance	Excellent			

Reviewer Name: Dr.Sumathi

Date: 17/3/2025

### 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.*

Floral bioactive compounds are substances found in flowers, like carotenoids, falvonoids and anthocyanins, that have positive effects on living organisms, including humans and are being studied for their potential in preventing diseases.

### *Detailed Reviewer's Report*

- 1. Pongamia pinnata also known as Indian beech, karanj, or pongam oil tree, is a fast growing, medium sized tree native to tropical and subtropical asia, Australia and the pacific islands.**
- 2. Antioxidant a substance that protects cells from the damage caused by free radicals. Free radicals play a part in cancer, heart disease, stroke and other diseases of aging.**

**REVIEWER'S REPORT**

- 3. Membrane stabilization refers to the process of strengthening and protecting cell membranes, crucial for maintaining cellular integrity and function especially during stress conditions by preventing leakage and damage.**
- 4. A multifaceted approach involves considering a problem or issue from multiple angles and perspectives, leading to a more comprehensive understanding and potentially more effective solutions.**
- 5. Oxidative stress is a state of imbalance between the production of reactive oxygen species and the body's ability to counteract their harmful effects with antioxidants.**
- 6. Microbial resist also known as antibiotic resistance is a phenomenon where microorganisms develop the ability to resist the effects of antimicrobial drugs designed to kill or inhibit their growth.**
- 7. Flow charts of review informations can be included. Results part are good with tables, graphs and pictures.**
- 8. Summary parts must be included.**
- 9. References should be in alphabetical order.**
- 10. This research findings are one of the biomedical research and valued scientifically.**
- 11. Can be published in your journal after minor corrections.**