

REVIEWER'S REPORT

Manuscript No.: IJAR- 58596

Title: INFLUENCE OF DIFFERENT CONCENTRATIONS OF GA₃ ON SEED GERMINATION IN *Corynandra felina* (L.f.) Cochrane & Iltis.

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	Excellent			
Clarity	Excellent			
Significance	Excellent			

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- Corynandra felina* is a small, wild medicinal herb belonging to the family Cleomaceae, commonly known as the cat spider flower and endemic to peninsular India.
- Gibberellic acid (also known as GA₃) is a natural plant hormone that stimulates seed germination, promotes stem elongation, and regulates flowering and fruit development.
- Seed dormancy is a natural resting state where a viable seed refuses to grow even when water, heat, and oxygen are ideal. The main types include primary dormancy (set while the seed grows on the parent plant) and secondary dormancy (triggered by bad weather after the seed drops). It helps plants survive harsh times.
- Seed germination is the process where a seed wakes up from a resting state and grows into a tiny plant, needing three main things: water, warmth, and air.
- An endemic medicinal plant is a species native to a single, specific geographic location and used for healing, such as *Echinops kebericho* in Ethiopia or *Haplopappus remyanus* in Chile. These restricted plants face high risks from over-harvesting and climate change.

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- 6. Different concentrations of Gibberellic Acid (GA₃) strongly affect plant processes, with optimal results typically seen at moderate doses like 50 ppm to 150 ppm, while higher doses can reduce benefits or harm growth.**
- 7. Different concentrations of Gibberellic Acid (GA₃) strongly influence plant processes, typically improving seed germination, sprout growth, and stem elongation up to an optimal threshold before seeing diminishing returns.**
- 8. An endemic medicinal plant is a type of plant that naturally grows in only one specific geographic region and is used in traditional or modern healthcare to treat illnesses. Because they evolve in isolated or distinct environments, these plants often produce unique chemical compounds not found anywhere else.**
- 9. Seed germination is the process where a dormant seed wakes up and grows into a tiny new plant, or seedling. It needs water, the right temperature, and air to start this journey.**
- 10. a natural state where a live seed refuses to grow, even when it has enough water, air, and the right temperature. It acts like a built-in timer to help plants survive bad weather.**
- 11. Key words can be given some more.**
- 12. Result part is awesome with tables and some pictures. But can be given pie chart for values.**
- 13. This research is medicinal plant and benefit for scientific area.**
- 14. Summary points only can be included.**
- 15. After a small changes good to publish in your journal.**