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REVIEWER'S REPORT

Manuscript No.: **IJAR-52410** Date: 22.06.2025

Title: Plant-Mediated Nanoparticles in Antimicrobial Therapy: A Review on Cissus quadrangularis-Derived CuNPs and AgNPs

Recommendation:
Accept as it is .....
Accept after minor revision minor changes needed
Accept after major revision .....
Do not accept (*Reasons below*) .....

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

Reviewer Name: Gopal Anapana (Reviewer ID: JPR-052) **Date:** 22.06.2025

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.

General Comments

The manuscript provides a comprehensive and insightful review on the green synthesis of copper and silver nanoparticles using *Cissus quadrangularis* and their antimicrobial applications. It effectively synthesizes recent findings and presents a balanced comparison between CuNPs and AgNPs. The topic is of considerable interest in the context of sustainable nanotechnology and antimicrobial resistance.

Content and Originality

- The manuscript is a review article, and while it does not present new experimental data, it offers an original comparative perspective on CuNPs and AgNPs synthesized via the same plant source.
- It draws from a variety of studies and presents integrated analysis, particularly useful for researchers interested in plant-mediated nanotechnology.
- The emphasis on *Cissus quadrangularis* and its phytochemicals is well-justified and relatively less explored in current literature.

Technical Quality

- The technical explanation of synthesis processes, characterization techniques (UV–Vis, FTIR, SEM), and antimicrobial assay methodologies is accurate and appropriately cited.
- Tables and figures are informative and enhance comprehension.

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Language and Presentation

- Language is mostly clear and professional.
- Minor grammatical and typographical errors are present and should be corrected (e.g., punctuation around parentheses, compound adjectives, verb tenses).
- Some sentences could be more concise, particularly in the abstract and discussion sections.
- Avoid redundancy in certain comparisons (e.g., CuNPs vs AgNPs discussed repeatedly).
- Bolding lines with in the paragraph is not good, remove the bold.
- Tables are not formatted appropriately.
- Spaces between paragraphs are more, delete.

Structure and Organization

- The manuscript is well-structured, with logical progression from introduction to synthesis methods, characterization, results, discussion, and future perspectives.
- Each section is clearly labelled and contributes to the overall flow of the paper.
- Figures and tables are placed appropriately and referenced correctly in the text.

References and Citations

- The references are recent, relevant, and appropriately cited throughout.
- Formatting should be reviewed for consistency (e.g., ensure uniformity in journal names, italics, use of full author names or initials).
- Better to add doi8 links or paper links wherever applicable, because no one contain.
- Consider adding more citations where comparative claims are made about the superiority of CuNPs over AgNPs.

Overall Recommendation: Minor Revision

The manuscript is suitable for publication after minor corrections related to grammar, clarity, and formatting. The content is valuable and contributes meaningfully to the literature on green nanotechnology and antimicrobial materials.

Detailed Reviewer's Report