

Review of: "[Review Article] A Comprehensive Overview on Pharmacological and Therapeutic Insights of Solanum nigrum Linn"

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Potential competing interests: No potential competing interests to declare.

- The hypothesis of the study is not described adequately, i.e., the timely importance of the study. The critical lack of understanding of the research topic should be apparent from the discussion on the previously published data.
- The methods section is required to be improved, i.e., how the literature review was performed in detail.
- The discussion does not fully assimilate the prior data and link studies with the central theme of the review.
- The abstract provides a nice overview but does not accurately reflect the key findings and contributions of the study. It should be revised accordingly.
- The writing could be improved significantly with proofreading to fix grammatical errors, typos, and awkward phrasing. The syntax is confusing at times.
- The overall organization and flow of the paper needs improvement. Sections seem disjointed and could benefit from transitional sentences between topics.
- The literature review is quite brief, lacks depth, and is somewhat outdated. More recent scholarly works on the topic should be reviewed and incorporated to demonstrate an up-to-date understanding of the field.
- The authors should focus more on the mechanistic insights behind the bioactivities.
- The phytochemical structures look over-stretched.
- To make the paper interesting, add figures showing the mechanisms of bioactivities.
- Especially, many of the bioactivities discussed in the current review are related to the modulation of the gut microbiota (see papers: PMID: 34610364, 31344423, 32814166), but there is no discussion on the potential bioactivities resulting from the modulation of the microbiota.