

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.

Dear Editor,

I have reviewed the manuscript "A Comprehensive Overview on Pharmacological and Therapeutic Insights of *Solanum nigrum* Linn" by Ahmed and Akter. In my opinion, the manuscript needs a thorough revision prior to publication.

Firstly, it may be updated. There are many reports on the pharmacological and therapeutic activities of *S. nigrum* that are not mentioned in the text. For example:

- Active components of *Solanum nigrum* and their antitumor effects: a literature review. Han Zhang et al., Front Oncol. 2023; 13: 1329957.
- *Solanum nigrum* L. in COVID-19 and post-COVID complications: a propitious candidate. Sharma D et al., Mol. Cell Biochem. 2023 Oct;478(10):2221-2240.

The authors should provide more specific details about how they conducted the literature search, which combinations of the keywords were used, and specify the inclusion and exclusion criteria (what they consider material deemed irrelevant?).

With respect to the chemical structures, include only the most relevant ones such as solasonine, solamargine, and solanine. Phenolic compounds such as rutin, gallic acid, etc., are well-known compounds. Moreover, they are of poor quality.

The detailed exploration of pharmacological and therapeutic potentials can often become lengthy and tedious to read. For instance, in section 3.2 regarding larvicidal activity, it would be preferable to consolidate the information into a single paragraph. The same approach should be taken for other activities discussed. Conversely, activities such as anti-cancer, anti-tumor, and cytotoxic effects should be grouped together for better coherence.

Other considerations throughout the manuscript

- Replace aq. extract by aqueous extract.
- *Solanum nigrum* and the names of microorganisms should be italicized.
- Please ensure that there are no missing spaces between words throughout the text. Additionally, clarify acronyms

where necessary, such as AESNB in anti-diabetic activity or anti-HCV, MCF in anti-estrogenic activity, etc.

Furthermore, always specify the types of extracts being referred to.