

Review of: "In-Vitro Antibacterial Activity of some Ganoderma Species: A Review"

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Potential competing interests: No potential competing interests to declare.

Between 2022 and 2023, four reviews were published on the topic (Am.J.Chin Med 2023; Biomolecules 2022; Foods 2023; Int. J. Med Mushrooms 2022). In my opinion, these reviews did not add anything very new.

Moreover, the submitted review has some mistakes and weaknesses.

· Specific points:

More than 400 fungus species of traditional medicine interest in Asian countries belong to the Ganoderma fungus. In the Abstract, the medicinal mushroom is incorrectly introduced as a "herbal medication" or "the plant". "Medicinal plant" is repeated in the text when talking about antimicrobial activity.

2. The Introduction does not begin with the description of the genus and the most important species, but it starts with Diabetic Foot Ulcer (DFU), which can lead to severe complications, including difficult-to-treat infections.

3. Several bibliographical references are missing; for example, when it is stated, "more than 300 triterpenes and 200 polysaccharides have been isolated." Furthermore, many other statements are without any reference, for example, about antibiofilm activity.

4. There is no caption in table 1.

5. There is no introduction to nanoparticles obtained by green synthesis.

6. Pag.10, MIC is defined as Minimal Antibacterial Activity.

7. Conclusion: there is no reference for the wound healing properties.