

# 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.

The authors have made a good effort to discuss various antimicrobial treatment strategies relevant to *Ganoderma* fungal species. However, a lot has to be improved with this manuscript.

Considering the context of the topic of this article, the actual antibacterial activity of *Ganoderma* species reported is relatively less. In contrast, details about diabetic foot ulcers have been discussed extensively, which doesn't reflect the actual context of the topic. If this article is about the antimicrobial activity of *Ganoderma* species in the context of diabetic foot ulcers, the topic should be changed accordingly.

Similar information has been reported under the sub-topics, *Ganoderma* and its species, Antimicrobial activity, Antimicrobial activity of *Ganoderma* species against Gram-positive bacteria, Antimicrobial activity of *Ganoderma* species against Gram-negative bacteria. Thus, the structure of the article and the information reported should be organized systematically under better-suited sub-topics, so that it will be easier for the reader to understand.

Although the antibacterial activity of *Ganoderma* species has been reported, the specific compounds responsible for the antibacterial activity have not been mentioned by the authors. Instead, the activity has been referred to using common chemical groups such as alkaloids, triterpenoids, polysaccharides, etc. These chemical compound groups are found in all plants, algae, fungi, sponges, and various aquatic invertebrates. And many of these compounds have been identified for their antibacterial activity. Therefore, there is a need to provide more evidence with references to support the antibacterial claims, indicating any active compounds isolated from *Ganoderma* species. It will help the readers to apprehend the actual potential of the fungal species on a comparative basis. If available, it would greatly improve the quality of this article if the authors could incorporate any information about the possible mechanisms of the reported antimicrobial compounds isolated from *Ganoderma*.

There's no reference to Table 1 in the text, and it is important to provide a title for the table.

In line 4 of the abstract, the term "infectious infections" is confusing, as both terms mean the same.

The 4<sup>th</sup> paragraph under the sub-title "Antimicrobial activity" doesn't make sense as there's a grammatical error in the sentence.

