

# 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.

**Title:** *Ganoderma: Exploring Antibacterial and Antifungal Properties - A Comprehensive Review*

**Introduction:** Ganoderma, a widely studied fungal genus, exhibits significant antimicrobial effects against various bacterial pathogens. This review delves into the in vitro antibacterial activity of different Ganoderma species, shedding light on their potential medical applications. However, certain aspects need improvement, as highlighted in the following combined observations.

**Structural and Organizational Improvements:** The paper lacks a clear structure, resulting in a disjointed flow. An initial section should introduce Ganoderma more broadly, offering a comprehensive overview of mushroom genera and their antimicrobial activities. Additionally, the abstract requires a clearer purpose, emphasizing the importance of the investigation and its scientific background.

**Species Overview:** Following a detailed introduction, the paper should smoothly transition to an examination of various Ganoderma species. This ensures a logical progression in content and facilitates reader comprehension.

**Medical Applications and Foot Ulcers:** The section on medical usage, particularly regarding foot ulcers, is currently introduced too early, causing confusion. It would be more appropriate to include this information after providing a thorough overview of Ganoderma species.

**Table 1:** The mention of "Table 1" lacks proper integration into the paragraphs. This reference needs inclusion within the text, and a relevant heading must be assigned to Table 1. Additionally, discrepancies in word spacing, especially on pages 3, 4, 5, and 9 (Table 1), need correction.

**Alignment and Proofreading:** To enhance readability, the entire text should be formatted in justified alignment. Furthermore, the paper requires meticulous proofreading and grammar editing to address issues highlighted throughout the observations.

**Abbreviations and Abstract:** Abbreviations should be defined upon first use and consistently applied. While the abstract accurately summarizes the paper, a more purposeful introduction is necessary after the abstract, providing background, scientific importance, and article objectives.

**Antifungal Activity:** The review adequately covers antibacterial activity but lacks sufficient detail on antifungal activity. Including a dedicated section for antifungal properties would enhance clarity and completeness.

**Conclusion and Recommendations:** The conclusion should be revised to encompass all key points, offering a comprehensive summary of the antimicrobial activity of *Ganoderma* species and potential future applications. Additionally, the article requires corrections of spelling, grammatical errors, and the clarification of unexplained abbreviations.

In summary, this paper holds promise in exploring the effectiveness of herbal drugs against infectious illnesses through *Ganoderma* species. However, structural, organizational, and linguistic improvements are necessary for a more coherent and polished presentation.