

Review of: "Uncovering Insights Into the Bio-Efficiency of Zingiber Officinale Roscoe: Understanding Components That Contribute Significantly to Ginger's Anti-inflammatory and Antioxidant Potential in Relationship With Modern Drying Methods"

Jian Wen¹

¹ Hainan University

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This article has undertaken considerable work to demonstrate the bioactive substances in ginger under different drying processes, and the effects of these substances on ginger's anti-inflammatory and antioxidant properties. The logical coherence, volume of work, and the meaningfulness of the results are commendable. However, there are several issues that I believe deserve attention:

Firstly, the composition of the abstract is not satisfactory; for instance, the background provided is quite weak, and the presentation of the results does not convey the main experimental findings, creating a disconnect with the results section in the body of the article.

Secondly, regarding the grammar, there are some mistakes, such as in the abstract "This study investigates the effects of two (2) modern food drying procedures on the bioactive ability of ginger and also unlock the active ingredients responsible for their bioactivities...", it should be 'investigated' and 'unlocked'. In the fourth paragraph of the introduction, there are numerous spelling errors and inaccuracies in expression, it should be "oven-dried and freeze-dried ginger extracts," and this sentence should end with a period rather than a comma. Similarly, this passage should state "their interactions with human antioxidant..." Such errors are prevalent throughout the document. Also, the Latin scientific names are not properly formatted in italics.

Regarding statistical methods, the paper does not disclose the data analysis approach; for example, how the comparison of Total Flavonoid Content and Antioxidant activity is made, and how variance and significance are presented?

In the results section, for "3.1 GC-MS analysis of raw, oven-dried, and freeze-dried ginger extract samples," it is necessary to provide the specific quantities of substances identified, the main substances, and their relative concentrations. In the attachment, the GC charts are unclear. In Supplementary Data 3, why are some values in the same row not marked for significance?

The main issue in the discussion is the lack of references. Starting from the seventh paragraph of the discussion, there are no references cited at all. Additionally, there are also some grammatical errors; please review carefully.

