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"

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Potential competing interests: No potential competing interests to declare.

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

I admired that the authors have prepared and organized this manuscript very well. However, there are something to correct.

General comments

1. The scientific name of the plant studied should be written in italic format,*Zingiber officinale* Roscoe.

2. All words and technical terms and various units are applied through this article in the same manner, for examples, bioactive ability or bioactivities and bioactive or bio-active. minutes or mins, antioxidant or anti-oxidant.

3. Please ask a native English speaker to correct your article in grammar and context.

Specific comments

1. For Title of this research,the authors should choose the words between*Zingiber officinale* Roscoe and Ginger to be use only the one. This will prevent any readers that are not in the field to confuse what the plant was studied.

2. Please check what parts of ginger were used to study in this article. In Plant material Section 2.1.1, the authors mentioned that its rhizomes were studied but in Section 2.2.4 you mentioned that its leaves and seeds were studied.

3. In Plant material section 2.1.1, the abbreviation for all ginger samples (RW-G, FD-G and OV-G) should be stated very clearly.

4. The authors should check how to write chemical formulas of substances that were used in this article, for examples, Na2CO3 and NaNO2.

5. In the Results and Discussion sections, there are some important comments as shown below.

5.1. The results of the extraction of ginger rhizome should include percent yields of crude extract and their characteristics.

5.2. Results of identification of chemical constituents of three different crude extracts by using GC/MS technique should be added into the Results section because it is very important data and used to further experiments and discussion. Therefore, it was not in Supplementary section.

5.3. There were many researchers to study about chemical constituents of ginger rhizome by GC/MS technique and biological activities so the authors should compare your present results with those of previous researches. This should include the results of total phenolics and flavonoids.

5.3. For the topic of Section 3.2, the authors did not study the phytochemical screening test of crude ginger extracts, but they determined total phenolics and flavonoids. Therefore, the authors should use the topic of Section 3.2 to be consistent with what they studied.

5.4. Please check all references that were cited in this article. Some were wrong, for example, “Results from Figure 1 and Supplementary Data 3 confirm and agree with previous studies [15] that both FD-G and OD-G possess more anti-inflammatory and antioxidant properties than RW-G.”

5.5. Please explain more about ligands such as FD-1, FD-3, FD-4, OD-5, and OD-7 and why they gave better results than the others with respect to the ADME and Toxicity requirement issues, and others in terms of the chemical structures of substances.