

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"

Meltem Çaycı¹

¹ Harran University

Potential competing interests: No potential competing interests to declare.

Comments to Authors

The study has offered useful insights, so thanks to the researchers. I would like to recommend some topics as shown below.

1. There is no need to write numbers both in words and in parentheses. (In line 1 of the abstract)
2. When declaring the results of the differences in antioxidant activity, it should be given the results of the differences in anti-inflammatory activity among the freeze-dried ginger (FD-G) and the oven-dried ginger (OD-G). (In line 6 of the abstract)
3. The methodology is not clear in the abstract section.
4. It would not be right to say "risk free" about any active ingredients, anti-inflammatory and antioxidant drugs. It could be declared as low risk, barely. (In line 3 of the abstract)
5. It should be checked whether the formula of the percent inhibition of protein denaturation is Ac-As or As-Ac?
6. The results of the phenolic content of RW-G (59.97 GAE/100g) are not consistent with supplementary data 3 (RW-G 595.97±6.09a,c). (In the results section, in article 3.2, in line 2).
7. Instead of **DPPH radical scavenging** property, it should be written as **DPPH radical quenching** activity. Also, it should be shown in references (supplementary data 3). (In the results section, in article 3.3, in line 2).
8. It should be written table numbers from small to big. (In the results, article 3.4., in the 1st paragraph).
9. The results of the samples should be given in the text and in the table in the appropriate order. For more clarity, if the results of the FD-1 sample are given in the text, FD-1 should be listed first in table 2. (In the results, article 3.4., in the 2nd paragraph).

10. Although the **RW-8 (-6.5) and RW-11 (6.11)** look cleaved better to the active site of the anti-inflammatory receptor (6NPY) compared to aspirin (-6.3 kcal/mol), the standard drug in Table 2, they are not available in the text.
11. It is declared that the OD-3, OD-8, and OD-9 are predicted to be non-soluble in water. But OD-9 seems very water soluble in Table 4. Also, there is no comment about the solubility of OD-10.
12. The sequence of the half-life ($T_{1/2}$) for the freeze-dried ginger is not seen as correct. It should be sequenced as FD-6 (0.051) < **FD-4 (0.560)** < **FD3 (0.610)** < **FD5 (0.063)** < FD-1 (0.73) for freeze-dried ginger.
13. There is no statistical analysis to evaluate the data definitively.

Best regards.