

Review of: "Tomatoes Unveiled: A Comprehensive Exploration from Cultivation to Culinary and Nutritional Significance"

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Potential competing interests: No potential competing interests to declare.

Thank you for the invitation to review your manuscript. Below are my appointments:

ABSTRACT

- Replace "As the second most cultivated vegetable worldwide" with : As the second most cultivated horticulture worldwide.
- Replace "The article offers a thorough overview" with: This review offers.....
- Change the position of the sentence "It explores the extraction of valuable compounds such as carotenoids and tomato seed oil for applications in diverse industries. Additionally, it discusses the potential of tomato waste in environmental remediation as an adsorption material". Put it before the sentence "The article offers a thorough overview of the industrial use of different tomato parts, including seeds, peels, and pomace, in producing various products."
- The following sentence "In essence, it underscores the remarkable versatility of tomatoes, transcending their culinary role to become a resource with implications for sustainability, innovation, and multiple scientific disciplines" would be better if rewritten like this: "In essence, tomatoes are remarkably versatile, transcending their culinary role to become a resource with implications for sustainability, innovation, and multiple scientific disciplines."
- In the keywords: the word "tomatoes" is in the title and for this reason it may not be used as a keyword. I would advise you to replace the word tomato with *Solanum lycopersicum* in the title of the manuscript or in the key words.
- INTRODUCTION
- In the first paragraph, replace "As a proud member of the Solanaceae..." with "As a member of the Solanaceae..."
- In the second paragraph, "Tomatoes rank second in terms of acreage among major globally cultivated vegetable crops, surpassed only by potatoes," it is repeated information. You can say it in the first paragraph. On the FAO website, through FAOSTAT, you can find the most current references in productivity. It would be good if you used this reference. It would also be good to comment on how profitable tomatoes are, how much money they generate in the world. How many fruits (kg) can a table tomato produce on average? How many tons are produced? Is the crop very susceptible to pests and diseases? Which? What varieties of tomatoes are most consumed globally?
- Table 1 appears long after it was first cited.
- Table 1 could be made up of more than one reference in order to better estimate an average, as these values can differ greatly between tomato varieties.

- The topic “Agricultural Research” must be explored. Needs to better explain why and how the tomato has been considered a model plant. It would be interesting to cite research that used it for this purpose.
- The topics “Agricultural Research” and “Biotechnology Industry” would be better off as a single topic.
- Figure 1 is a long way from where it was first cited.
- In the topic “Processing Tomato Seed Oil,” it would be nice if there was a small diagram illustrating the process.
- Ficou faltando um tópico sobre as principais formas de cultivo de tomate: orgânico, hidroponia, cultivo convencional, cultivo protegido, etc.
- A topic was missing about the main ways of growing tomatoes: organic, hydroponics, conventional cultivation, protected cultivation, etc.