

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.

A review work is written based on 22 items of scientific literature published mainly in 2022 and 2023. Unfortunately, when characterizing the importance of tomatoes in global production, the authors refer to a publication from 2014. In 2021, world production of tomatoes was 189 million tonnes, with China accounting for 35% of the total, followed by India, the European Union, Turkey, and the United States as major producers. UN Food and Agriculture Organization, Corporate Statistical Database (FAOSTAT). 2022. Retrieved 5 May 2022.

The work has the character of a popularizing lecture prepared in a sublime literary style. The issues were treated very superficially. Suitable as a publication for popular magazines. The issues contained in the text are not in-depth.

Introduction. Very general information about the composition of tomato fruit without indicating the influence of many important factors such as botanical variety, selected cultivar, method and place of cultivation, etc., on the chemical composition of tomatoes.

The botanical name for the tomato plant was incorrectly given. The tomato is *Solanum lycopersicum* L., and, according to the newer nomenclature, *Lycopersicon lycopersicum* (L.H. Karst.) or, more often, *Lycopersicon esculentum* (Mill.).

Single literature sources describe the medicinal properties of tomato fruit. They do not explain certain dependencies.

Not all selected tomato cultivars have red fruits (yellow, orange, almost black), and there is little information about the requirements of the processing industry regarding the composition of tomato fruits.

Table 1 is incomplete, lacks B vitamins (B2, pantothenic acid), vit. K, and etc. The table should be in the first part of the publication.

There is no information about the content and composition of tomato seed oil, and this product has been written about the most.

In conclusion, in my opinion, the manuscript is not ready for publication, and the authors need to work hard to improve it.