

Review of: "Analyzing the Science of Apple Juice: Insights Into Production, Preservation, and Health Effects"

Ruchika Zalpouri¹

¹ Central Institute of Post-Harvest Engineering and Technology

Potential competing interests: No potential competing interests to declare.

Thank you for providing me with the opportunity to review the manuscript titled "Analyzing the Science of Apple Juice: Insights Into Production, Preservation, and Health Effects." However, I must emphasize that the manuscript requires substantial revisions. Below, I have outlined specific suggestions aimed at assisting the author in enhancing the overall quality of the paper.

1. The abstract provides a comprehensive overview of apple juice processing and preservation. However, it would be beneficial to include a brief mention of the key findings or insights derived from the review to give readers a clearer idea of the paper's contributions.
2. Include more recent references, especially for sections discussing section 2 (health benefits of apple juice), to ensure the information reflects the latest research and industry developments.
3. In the introduction, consider adding a sentence or two that highlights the global significance of apple juice production and consumption to contextualize the relevance of the study.
4. In section 4 (challenges in processing), explain enzymatic browning and flavor degradation in more detail, providing examples or potential solutions to address these challenges.
5. Encourage the authors to review and update the references to ensure that they align with the most recent and relevant sources in the field (add references from the recent 5-6 years).
6. Add more study on the practical implications of the identified emerging trends in apple juice production (section 6). Can add material like how these trends might impact industry practices, consumer choices, or research directions?
7. Provide more context or examples for the "clean label movement" and how it specifically relates to apple juice production. Elaborate on the consumer preferences and industry shifts driving this movement.
8. Check the consistency of citation styles throughout the paper to maintain a professional and uniform appearance.
9. Consider adding a subsection or brief discussion on the economic aspects of apple juice production, such as market trends, consumer demand, and potential economic impacts of the identified emerging trends.