# Article information:

Bioactive compounds from pomegranate by-products increase the in vitro ruminal accumulation of potentially health promoting fatty acids-所有数据库
[https://www.webofscience.com/wos/alldb/full-record/WOS:000522386400020](https://www.webofscience.com/wos/alldb/full-record/WOS%3A000522386400020)

# Article summary:

1. Increasing demand and production of pomegranate has led to a large amount of by-products that might be used in ruminant feeding.

2. Two in vitro experiments were conducted to test the effects of pomegranate oil and tannins, alone or in combination, on the biohydrogenation process and ruminal responses to by-products rich in CLnA (pomegranate seeds), tannins (pomegranate peels and pulp) or both bioactive components (whole pomegranate by-product).

3. Results from both trials support that pomegranate tannins and CLnA played different roles in modulating ruminal FA composition, with tannins favouring the accumulation of potentially health-promoting FA present in dietary lipids, while trans-11 18:1 would mainly derive from the biohydrogenation of CLnA isomers.

# Article rating:

May be slightly imbalanced: The article presents the information in a generally reliable way, but there are minor points of consideration that could be explored further or claims that are not fully backed by appropriate evidence. Some perspectives may also be omitted, and you are encouraged to use the research topics section to explore the topic further.

# Article analysis:

This article provides an overview of two experiments conducted to test the effects of pomegranate oil and tannins, alone or in combination, on the biohydrogenation process and ruminal responses to by-products rich in CLnA (pomegranate seeds), tannins (pomegranate peels and pulp) or both bioactive components (whole pomegranate by-product). The results from both trials support that pomegranate tannins and CLnA played different roles in modulating ruminal FA composition.

The article is generally reliable as it provides detailed information about the experiments conducted as well as their results. The authors have also provided a thorough discussion about their findings which helps readers understand their implications better. Furthermore, they have also provided references for further reading which adds credibility to their claims.

However, there are some potential biases that should be noted. For instance, the authors do not provide any information about possible risks associated with consuming these products or any counterarguments against their findings. Additionally, they do not discuss any other potential benefits associated with consuming these products apart from increasing potentially health promoting fatty acids which could lead to a one sided view of this topic.

# Topics for further research:

* Potential risks of consuming pomegranate by-products
* Health benefits of consuming pomegranate by-products
* Effects of pomegranate tannins on ruminal responses
* Effects of pomegranate CLnA on ruminal responses
* Biohydrogenation process and pomegranate by-products
* Counterarguments against the effects of pomegranate by-products on ruminal responses

# Report location:

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