Review of: "Mapping the Canadian Research Landscape in 2023"

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Potential competing interests: No potential competing interests to declare.

Dear author,

This is an interesting paper on scientific production in Canada, but I think it could be much improved to show scientific soundness and be of some academic use.

First, the title does not match the content. It is merely a bibliometric analysis. To "map the landscape," other tools are needed that are not used (such as co-authorship or keyword co-occurrence analysis).

The context in the introduction is OK. The analysis of the current state of publications of a country can be relevant, but it depends on "relevant to whom." The paper does not say at any point to whom specifically the analysis is directed. However, questions are missing in the introduction. For example, which fields of science are the most active? Is there a relationship between the number of publications and the "size" in terms of economics or number of professors of each institution? Is there geographic regionalization in terms of scientific production? There are many more questions to be answered with the type of analysis in this work.

The methodology lacks details. The use of the PRISMA protocol is highly recommended in this type of work (www.prisma-statement.org/). The tools used to analyze the data should also be mentioned.

The results are relatively well presented, but important points are missing, such as the analysis of citations and impact indices, not to mention a true scientific mapping analysis.

The paper has no discussion and no bibliographic references (not even in the introduction). It is a purely descriptive, self-contained work. The results are not contrasted with the global patterns of science, nor with other similar works in Canada or other countries.

For improvement, I recommend:

- Frame the work in a theoretical framework, using bibliographic references.

- Identify potential "users" for this type of work.

- Give full details of the methodology.

- Use science mapping through co-authorship and co-keyword analysis (e.g., using VOSviewer software).

- Write a proper discussion, comparing and searching the literature for explanations to what was found based on similar work in Canada or around the world.