

Review of: "Targeting Cancer Cell Signaling Using Precision Oncology Towards a Holistic Approach to Cancer Therapeutics"

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Potential competing interests: No potential competing interests to declare.

The review provides a comprehensive overview of cancer development, progression, and treatment; it describes the signaling pathways and scope for targeting genetic alterations using precision oncology. The author has tried to incorporate all details pertaining to developments in cancer research, which is commendable. However, owing to this, there are certain instances where the essence of the main topic is lost.

I would recommend the following changes:

- The abstract provides the background information and the aim; however, interpretations/recommendations based on key findings are missing. Please ensure that these are added (you may source this information from the conclusion paragraph) so that the abstract contains all the necessary elements.
- The introduction section is too long. Furthermore, the gap in the literature (why a review of the topic is necessary) and the aim of the study (the importance/purpose of the review) are not written in this section. In fact, *Cancer Genomics and the Emergence of Precision Oncology* section is more appropriate as the introduction section than the introduction section itself. Please make the necessary changes.
- The tables and figures present the data clearly. However, the tables and figures have not been cited in the text. Please cite them at appropriate locations.
- Please proofread the manuscript to ensure that there are no errors with respect to technical terms (e.g., Hg is written instead of Hh in the following sentence: *In addition to that, the alterations in Wnt signaling are known to influence Hg and Notch pathways alternatively which can be intrinsically related to the maintenance of cancer stem cell properties*).
- Please consider adding information regarding recent case studies (maybe as a table) to illustrate how precision oncology has been applied in a real-world setting.
- The text requires extensive changes in terms of language, grammar, and readability. The meaning of several sentences is unclear. Moreover, most of the sentences are extremely lengthy.
- Please consider replacing citations that are older than 15 years (1, 32, 35, 38, 53, 58, 89, 92, 145) with recent citations.