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

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Summary:

The manuscript provides a brief overview of the concept and applications of precision oncology, a form of cancer therapy that uses the genetic profiling of individual tumors to identify molecular alterations involved in cancer development and progression. The authors explain the foundations and frontiers of precision oncology, such as the genomic study of cancer cells, identifying biomarkers and therapeutic targets, designing personalized treatment regimens, and using molecular technologies to improve clinical outcomes. The authors also discuss the challenges and limitations of precision oncology, such as the heterogeneity and complexity of tumors, the lack of reliable biomarkers and effective drugs, the cost and accessibility of genomic testing and analysis, and the ethical and social implications of personalized medicine. The authors conclude that precision oncology is a promising approach to address the diverse aspects of cancer biology and to provide patient-specific treatment options for cancer cure. The review is very interesting but needs a minor revision for improvement.

Shortcomings:

- The manuscript lacks a clear, specific research question or hypothesis guiding the review.
- The manuscript does not address the potential gaps, controversies, or future directions of precision oncology research and practice. The authors do not discuss the current challenges and opportunities of precision oncology, such as the integration of multi-omics data, the development of novel biomarkers and drugs, the optimization of treatment algorithms and decision support systems, the evaluation of clinical outcomes and cost-effectiveness, and the involvement of patients and stakeholders in the precision oncology process.

Suggestions for improvement:

- The authors should formulate a clear and specific research question or hypothesis that guides the review, and state it in the introduction and the abstract. The authors should also explain the aim, scope, and contribution of their work, and how it fills a gap or advances the knowledge in the field of precision oncology.
- The authors should also critically evaluate the strengths and weaknesses of the previous research, and compare and contrast the different methods, results, and implications of precision oncology in different cancer types and settings.

- The authors should address the potential gaps, controversies, or future directions of precision oncology research and practice. The authors should discuss the current challenges and opportunities of precision oncology, such as the integration of multi-omics data, the development of novel biomarkers and drugs, the optimization of treatment algorithms and decision support systems, the evaluation of clinical outcomes and cost-effectiveness, and the involvement of patients and stakeholders in the precision oncology process. The authors should also provide some recommendations or suggestions for future research and practice in precision oncology.