

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 raises some interesting points regarding the era of precision oncology, but it is too long, thereby hindering the readability of the manuscript.

I would recommend the following changes to improve the manuscript:

1. CHAPTER1: The introduction section should be combined with chapter 2. Both sections should be shortened because the information presented are well-known. Indeed, in this “new” section the author should briefly provide an adequate and factual background and clearly state the purpose of the review.

2. CHAPTER3: It would be helpful if author can make a summary figure. This way would be much easier for readers to follow and find key information. Furthermore, please add the epithelial-to-mesenchymal transition given that it occurs frequently during tumor progression.

3. CHAPTER4: Given that the information presented are well-known, the author should shorten this section. Furthermore, the title is misleading given that the author only describes the genetic alterations without any mention on their targetability.

4. CHAPTER5: Please consider replacing some old references of this section with more recent ones (e.g. 53-54-89)

5. CHAPTER6: This section is interesting: it would be helpful if author can give more details. Moreover, the following sentences is misleading “Technologies using NGS have been developed that measure some characteristics of a whole family of cellular molecules, such as genes, proteins, or metabolites, and have been named by appending the term “-omics.” because NGS is used only for genomic and transcriptomic analyses.

6. CHAPTER 8: This section is confusing. The therapeutic strategies are not listed with a clear logic and author should revise it. Moreover, please add more comments on information reported in Table2. Furthermore, the paragraph concerning drug delivery is poor and limited to quantum dots.

7. GENERAL COMMENTS: (i) I suggest revision of manuscript for language and typos and (ii) please cite and appropriately describe in the text the supplementary data added to the review.

