

Review of: "The role of pH in cancer biology and its impact on cellular repair, tumor markers, tumor stages, isoenzymes, and therapeutics"

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Potential competing interests: No potential competing interests to declare.

Dear author

I read your article and i suggest major revision.

1. The title is very long and not eyecatching find a better title.
2. The abstract is not well written preferably write a structural abstract contain Background and objective, material and methods, discussion, and conclusion.
3. I suggest not to start with "The intriguing connection between pH and cancer is explored in this manuscript. The role of pH in cancer biology, including its impact on cellular repair, tumor markers, tumor stages, isoenzymes, and therapies, is highlighted"
4. highlight your finding and what made your study important to read. why the reader should read your study what is new?
5. in the introduction: divide the introduction to background of cancer, important factors in cancer, metabolism and pH, why you target PH in the study? I suggest you to use the interesting parts regarding genetic, metabolism, PH from below articles: Digging deeper through glucose metabolism and its regulators in cancer and metastasis <https://doi.org/10.1016/j.lfs.2020.118603> , Metformin one in a Million Efficient Medicines for Rheumatoid Arthritis Complications: Inflammation, Osteoblastogenesis, Cardiovascular Disease, Malignancies
DOI: <https://doi.org/10.2174/1573397114666180717145745> , A novel inframe deletion in MSH6 gene in glioma: Conversation on MSH6 mutations in brain tumors
<https://doi.org/10.1002/jcp.27759> , Chronic myeloid leukemia with complex karyotypes: Prognosis and therapeutic approaches
<https://doi.org/10.1002/jcp.27505> , **Cyclin D1: A Golden Gene in Cancer, Cardiotoxicity, and Cardioprotection**
DOI: <https://doi.org/10.5812/jjcd.112413>
6. Discuss the environmental effect and genetic on metabolism and PH and design a mind map and an image for the beginning and present a crystal clear vision over your PH because it is controlled by various characters.

7. "5. Therapeutic Implications Targeting the pH Microenvironment" is very important in your article design a table and enlist the medicines that target PH and mention the study and the outcome and method in the table, i also suggest a figure to visualize the most important and effective medicins and the mechanisms of effects.

8. discussion section has no reference and it is a summary you can shift it to introduction with references for every sentence.

9. conclusion: present what did you bring to the science? what is new in your study? what is the highlight? what is your futur study messeg? what made your study specific and why reader should read your article? what are the useful medicines and mechanisms that target PH in cancer treatment? what is your hypothesis?

10. check the pelagerism and grammer.

11. design a graphic abstract with a figur legend.

12. update your references.

13. mention the abbreviations at the first place and make a list of the abbreviations at the begining or the end.

14. what do you mean by other references? why you did not refrence it in the text?