

Rev 1:

The manuscript entitled ‘Antioxidant and Anti-cancer Functions of Protein Acyltransferase DHHC3’ mainly reviewed the functions and roles of DHHC3 in antioxidant and anti-cancer. It is an original article and catches some parts to be adjusted which are as follows:

1. I think the organization of this manuscript should be improved.
2. Mechanisms in this manuscript could be more creative and the main emphasis should be highlighted.
3. Review is not the simple list of articles, the authors should have your own views and speculations, such as to summarize the common mechanisms of DHHC3 in antioxidant and anti-cancer and sum up the function.
4. A more detailed illustration could be made to show the mechanism of DHHC3.
5. Finally, the abstract was templating, and the authors should make the language more native by appropriate modifications.

1. The manuscript has been reorganized.
2. The focus on DHHC3 as a regulator of oxidative stress and cancer has been better emphasized (e.g., see new Graphical Abstract).
3. We now more fully emphasize that many anti-cancer effects of DHHC3 ablation are likely due to elevated oxidative stress. However, we also clarify that some anti-cancer effects arising due to DHHC3 ablation may occur independent of oxidative stress (see new Fig. 2 and new section 8).
4. The newly added Fig. 1 gives an overview of the mechanism likely for most DHHC enzymes. Revised and expanded Fig. 2 addresses DHHC3 mechanism, by emphasizing key substrates that most likely play a central role in its anti-cancer mechanism.
5. The abstract was placed into the template according to journal instructions to authors. Language in the abstract has been modified to make it read more smoothly.