REVIEWER 1

It is a well and clearly written paper, but there are some recommendations I would like to address. Firstly, please rephrase the following lines: 12-13, 26-27, 57, 206.

In accordance with the Reviewer's recommendations, we have amended the text at the lines they indicated. These are now lines 13, 28-29, 57-61, and 216-218, in the revised submission.

I suggest rethinking the title as the authors specified that dietary antioxidants can only "attenuate cancer-induced muscle wasting", not treating it, as there are also positive and negative effects of antioxidants.

The title has been amended as per the Reviewer's suggestion. It now reads: 'Role for plant-derived antioxidants in attenuating cancer cachexia'.

I would find it interesting if the authors approach the involvement of antioxidants in attenuating the negative effects of chemotherapy because it is another important factor in cancer cachexia induction.

IN accordance with the Reviewer's suggestion, we expanded our investigation to also cover the action of specific antioxidants against the negative effects of chemotherapy. We have also expanded the review to also now cover potential synergetic effects of these antioxidants with chemotherapy in cancer.

Regarding section 5, I consider that the information about polyphenols is very few. Why did you choose to talk about polyphenols as emerging agents for cancer cachexia? Moreover, there are more examples of polyphenols with anticachectic potential, for example, rutin. (see: Gil da Costa, et all. HPV16 Induces a Wasting Syndrome in Transgenic Mice: Amelioration by Dietary Polyphenols via NF-KB Inhibition. *Life Sci.* 2017, *169*,11–19. https://doi.org/10.1016/J.LFS.2016.10.031.)
Please check and argue your choosing if consider those mentioned as the most important, or else, increase the spectrum of information delivered.

We thank the Reviewer for their suggestion on how to expand on our discussion regarding polyphenols as therapeutic agents for cachexia. This section has now been expanded to include the Reviewer's suggestion of including discussion on rutin, and we have also included discussion of other polyphenols, such as quercetin, genistein (daidzein) and morin.