Reviewer # 3
We thank the reviewer for his or her fruitful comments.

The manuscript entitled “Identification of bioactive compounds in phenolic rich extract from marine red algae *Gracillaria edulis* (Gmelin) Silva to combat obesity and Type-2 diabetes.” examines about inhibitory effects of several fractions obtained from marine red algae *Gracillaria edulis* against diabetes related parameters *in vitro*. The IC$_{50}$ values of the fractions were determined and compared with positive control samples. Moreover, compositions of the fractions were determined and the data suggest that the fractions contain effective compounds.

This study includes beneficial information for developing new anti-diabetes fractions from the marine sample.

Comments:

1). In Table 3, IC$_{50}$ value of methanol extract for anti-glycation was higher than those of hexane fraction, chloroform fraction, and ethyl acetate fraction. On the other hand, in Figure 4, inhibitory activity of methanol extract was higher than other fractions. These results are apparently opposite. How do the authors explain?

Thank you for pointing out this. This was an error occurred during the labeling of the series. Corrected it.

2). The IC$_{50}$ values of fractions against alpha-amylase, alpha-glucosidase, and anti-glycation, were one or two-order higher than positive controls. The result suggests that the inhibitory activities are markedly low. Therefore, it is difficult to explain the anti-diabetic activity of the marine sample by the inhibitory activities of the parameters. The authors should explain the relationship between the effective dose of marine sample and the inhibitory dose of fractions in discussion section.

In the discussion section, we have discussed the present study data with the previous studies of alpha- amylase and alpha-glucosidase using effective dose. Since, this is the first study of the inhibitory activity of formation of AGE’s, it is difficult to compare the results with previous studies.

3). The English writing of the manuscript should be improved. The authors should check again the English in the manuscript. -

We got the English editing completed by MDPI professionals.