Author’s response to reviews

Title: The association of circulating irisin with metabolic risk factors in Chinese adults: a crosssectional community-based study

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Author’s response to reviews:

Dear editor,

Thank you very much your time and comments, we have updated our clean manuscript and made revisions according to your comments. However, it seems that the automatic line number in PDF didn’t match with the lines. We added lines in WORD and correct our manuscript according to the lines you pointed out. If it doesn’t match please let us know the exact lines needed to correct. Thank you.

Technical Comments:

1. Rename “Ethics approval” to "Ethics approval and consent to participate"
2. Rename "Contributors" to Authors' contributions
3. Rename "Funding resources" to Funding
4. Rename "Conflicts of interest disclosures" to Competing interest

We have renamed them according to editor’s suggestion.
Editor Comments:

Thank you for making previously requested changes, please also address the following points.

1. We note that the current submission contains some textual overlap with other previously published works, in particular:

We have rephrased those expression and also added related references.

Page 4 lines 25-27:

Serum irisin levels were measured by using the enzyme-linked immunosorbent assay (ELISA) kits (BioVision, Milpitas, CA), in accordance with the manufacturer’s instructions. The sensitivity of the assay was 1 ng/mL. The intra- and inter-assay coefficients of variation were 8% and 10% respectively.

Page 10 lines 18-19:

We do have some limitations in this study. Firstly, the cross-sectional study was unable to give information on prospective changes for irisin and its association with each metabolic parameter.


Page 4 lines 21-22: Glycosylated hemoglobin A1c (HbA1c, %) was measured by high performance liquid chromatography (HPLC, Bio-Rad D-10 hemoglobin A1C radiometer).


We added the reference.

Page 9 lines 11-14:
On the contrary, a study revealed that irisin was positively associated with markers of insulin resistance including HOMA-IR. Serum levels of irisin were positively associated with blood glucose levels and fasting insulin in healthy individuals, and in those with obesity but not T2DM in children and in women with polycystic ovary syndrome.

On the contrary, irisin has been positively associated with HOMA-IR. Researchers found that irisin were positively associated with fasting insulin and blood glucose in healthy individuals, and in women with polycystic ovary syndrome and in children with obesity but without T2DM.


Page 10 lines 4-6:

A population-based cohort included 967 non-diabetic people living in Germany 35, this study investigated the association between irisin and lipid levels, finding a significant association with favorable lipid profile; in particular, an inverse association of irisin with total cholesterol concentration.

A population-based cohort included 967 non-diabetic people living in Germany35, found irisin had a significant association with favorable lipid profile; especially irisin was negatively associated with total cholesterol concentration.


While we understand that you may wish to express some of the same ideas contained in these publications, please be aware that we cannot condone the use of text from previously published work.

If there is overlap in the Methods section, please ensure to summarize the methods and cite the source.

Please re-phrase these sections to minimise overlap.

We have rephrase all these sections to minimize the overlap.

2. Please separate the funding and competing interests sections.

We have separated the funding and competing interests sections.

3. At this stage, please upload your manuscript as a single, final, clean version that does not contain any tracked changes, comments, highlights, strikethroughs or text in different colours.
All relevant tables/figures/additional files should also be clean versions. Figures (and additional files) should remain uploaded as separate files.

We have uploaded the clean version of our manuscript.