Dear,

Herewith we are resubmitting a revised version of the review entitled “Role of Abscisic Acid in the Whole Body Regulation of Glucose Uptake and Metabolism”by Spinelli et al.

We would like to express our gratitude to the reviewer for their valuable suggestions. We believe the revised version of the review has been significantly improved, addressing all of the reviewers' comments. A detailed point-by-point response to the reviewers' feedback is included.

We look forward to receiving your editorial decision. Please accept our best regards.

Sincerely,

Laura Sturla

REVIEWER1

The authors have provided a comprehensive review on the role of ascorbic acid in glucose absorption and metabolism. This manuscript is well-written and effectively discusses recent trends in ABS and its potential role in treating diabetes. However, before this manuscript can be published in *Nutrients*, minor revisions are required.

Comments:

1. **Line 46**: Ensure that *cis* and *trans* are italicized. Apply this formatting consistently throughout the manuscript.

   Thank you for your comment; we have italicized "*cis*" and "*trans*".

2. **Lines 50 and 64**: Remove the hyphens at the beginning of the sub-titles. Ensure this correction is applied throughout the manuscript.

   We have removed the hyphens from the beginning of all sub-titles throughout the manuscript.

3. **Line 119**: Adjust the position of the subtitle for consistency with the formatting of other sections.

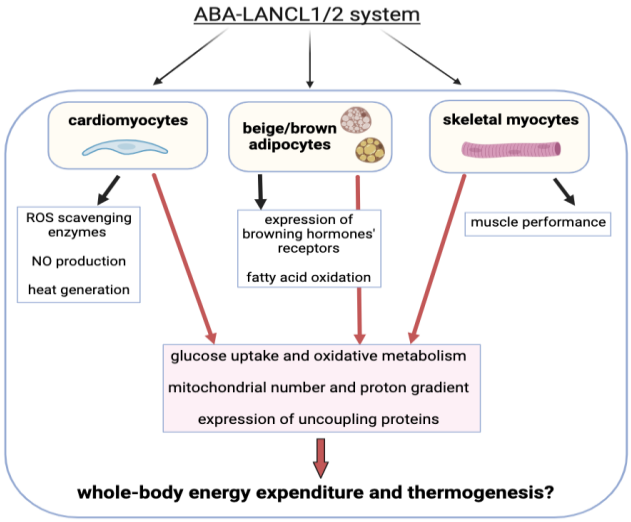
   Ok, we have adjusted the subtitle's position.

4. **Title and Subtitles**: Capitalize the first letter of each word in the title and all subtitles.

   Ok, we capitalized the first letter of each word in the title and all the subtitles.

5. **Figures and Schematics**: The authors are advised to include more schematic representations illustrating the role of ABA in glycemia control. Specifically, consider depicting its effects on cardiomyocytes, skeletal muscles, and adipose tissues for better clarity and impact.

   We included a new figure (Figure 4) that illustrates the effects of the ABA/LANCL2 system on skeletal myocytes, cardiomyocytes, and adipocytes.


ABA-LANCL1/2 system
cardiomyocytes
beige/brown adipocytes
skeletal myocytes
ROS scavenging enzymes
NO production
heat generation
expression of browning hormones' receptors
fatty acid oxidation
muscle performance
glucose uptake and oxidative metabolism
mitochondrial number and proton gradient
expression of uncoupling proteins
whole-body energy expenditure and thermogenesis?