Reviewer 2

A generally well written and informative review. My main concern is in regards to Figure 2, the authors reference Figure 2 in such a way that it suggest that Figure 2 should show how p53 is involved in adipogenic differentiation, how insulin acts on adipocytes, how adipocytes are sensitized to inflammation, etc. but the figure doesn't specifically show any of this. I would suggest changing where and how the figure is referred to, or changing the figure itself so that it is more specifically shows these.

We would like to thank this reviewer for his/her pertinent and constructive suggestions and really think that it will help to improve the manuscript. The present manuscript has been revised accordingly to his/her suggestions.

As suggested by this reviewer, the manuscript was substantially revised and the text has been reorganized and/or partially rewritten. In the revised version, the text organization was clearly described and figure 2 have been referenced at the end of the introduction. The sub-sections were better organized to present data in a meaningful way in explicit entitled paragraph. Accordingly, the numbering of the 4 arms of the new figure 2 (more informative and used as graphical abstract) match to the numbers used in the titles of the sub-sections. Thus, the reader may follow the text organization using this figure as a map.

There are also a few typographical issues, see lines 172, 222-223, 229-230.
These typos have been corrected. Thank you to have alerted us.

Also in figure 2 the one adipocyte cell in the bottom left of the figure if very low resolution for some reason.
We did not encounter any resolution problem (at least in our computer), but we changed the adipocyte cell with a better image.