

Dear Editor and reviewers,

We are re-submitting a manuscript (NO: 90483) entitled “**Epigenetic Modifications of Placenta in women with gestational diabetes mellitus and their offspring: A review**” for publication as a review article in *World Journal of Diabetes*. We would like to take an opportunity to thank editors and reviewers very much for the comments. We have carefully followed the suggestions from the reviewers and the instructions for authors during the revision. Those comments are very valuable and helpful for revising and improving our paper. We have studied these comments carefully and have made correction that we hope meet with approval. Revised portion are marked in red in the revised manuscript. The main corrections are in the revised manuscript and the point-to-point responses to the Reviewers’ comments are as follow:

To reviewer #1

*The authors wrote a quite interesting review on the placenta epigenetics and gestational diabetes mellitus. This is generally of high interest. Following comments should be addressed. There are many environmental, dietary, and lifestyle factors that influence hormonal factors and pathogenic mechanisms including epigenetic changes in placenta. The authors should discuss these points; influence of those factors, eg, diet, smoking, alcohol, obesity, sleep, exercise, hormonal factors, etc. on placental biology and clinical outcome. These factors may influence molecular pathology and epigenetic changes in each patient differentially. There are also influences of germline genetic variations on epigenetics. Gene-by-environment interactions should be discussed. In these contexts, research on dietary / lifestyle factors, epigenetics, and personalized molecular biomarkers is needed for clinical outcome research. The authors should discuss molecular pathological epidemiology research that can investigate those factors in relation to epigenetic changes and disease outcomes. Molecular pathological epidemiology research can be a promising direction and should be discussed, eg, in *Mod Pathol* 2013; *Epidemiology* 2016; *World J Hepatol* 2016; *Ann Rev Pathol* 2019.*

Response: Thanks for reviewer’s suggestion. We have added molecular pathological epidemiology research that can investigate those factors in relation to epigenetic changes and disease outcomes. Molecular pathological epidemiology research (see ref 12,101,102 and 103).

As the revision process results in changes to the content of the manuscript, language problems may exist in the revised manuscript. Thus, it is necessary to perform further language polishing that will ensure all grammatical, syntactical, formatting and other related errors be resolved, so that the revised manuscript will meet the publication requirement (Grade A).

Authors are requested to send their revised manuscript to a professional English language editing company or a native English-speaking expert to polish the

manuscript further. When the authors submit the subsequent polished manuscript to us, they must provide a new language certificate along with the manuscript.

Response: Thank you for reviewer's recognition of our manuscript. The manuscript has been sent to language editing service. We provided a new language certificate along with the manuscript and marked the changes in red in the revised paper.

We appreciate for your warm work earnestly, and hope that the correction will meet with approval.

Once again, thank you very much for your comments and suggestion.

On the behalf of all authors

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