Reviewer’s report

Title: DNA methylation of the glucagon-like peptide 1 receptor (GLP1R) in human pancreatic islets

Version: 2 Date: 1 February 2013

Reviewer: Puspa Pandey

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Major Compulsory Revisions:
1. The introduction part of the manuscript is too short and does not explain the rationale and significance of the study. The authors can elaborate it so as to give the readers a good idea about the manuscript.
2. In Figure 1B, DNA methylation pattern in T2D and control is very low. The authors also have not mentioned how many samples (donors) were used in this study.
3. Does the 376 Cpg site only negatively correlated with the GLP1R expression? The authors did not mention the correlation with other Cpg sites that they stated in Fig 1A.
4. The authors did not provide information regarding DNA methylation patters in other Cpg sites besides -376 in alpha and beta cells. It would be nice if they can check the methylation patters in other Cpg sites as well.
5. Results, Discussion and Conclusion sections are too short to explain all the things.
6. Too little information is provided in this manuscript. In fact, all the 3 figures can be combined into one. Very limited number of experiments are done to prove their hypothesis

Minor Essential Revisions:
1. The names of manufacturers should be uniform throughout the text. For instance, in materials and methods section, only Invitrogen and Roche is written however elsewhere name, city and country is also given.

Level of interest: An article of limited interest

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests