Reviewer’s report

Title: SIRT1 (rs3740051) role in pituitary adenoma development

Version: 2 Date: 08 May 2019

Reviewer: Giampaolo Trivellin

Reviewer's report:

The authors replied to my comments, provided missing information, and revised the Discussion as requested, therefore greatly improving their manuscript. I have one main remaining concern:

1. In the revised Introduction and Discussion sections the authors, while correctly citing the study they referred to, they copied and pasted part of the cited papers, with very marginal or no modifications at all. E.g.:

"Hemminki and colleagues have analyzed incidence trends and familial risks for PAs and associated tumors through parental and sibling probands, using the nation-wide Swedish Family-Cancer Database, containing families with parents and offspring. The only significant association among siblings was found between pituitary tumors and breast cancer (1.46). The risk of pituitary adenoma was marginally increased in individuals whose siblings were diagnosed with colorectal cancer" on page 28

And

"SIRT1 may act as a genome caretaker in normal cells and therefore suppress tumorigenesis. However, upon oncogenic events, tumor cells co-opt SIRT1-regulated cellular pathways to promote unabated proliferation, progression, resisting death signals, and genetic/epigenetic evolution. Overall, the role of SIRT1 as either a tumor promoter or a tumor suppressor is still under investigation." on page 42

This is not acceptable as it constitutes plagiarism. The authors should therefore modify these instances and reformulate the sentences using their own words.

Two minor comments:

1. On page 41, the authors state that "Ki-67 LI was evaluated in 55 patients with PA (Supplementary material)." It is not clear to me whether they will provide additional information in the Supplementary material or if they perhaps refer to table 10?

2. In Supplemental table 1 the word "Codominantinis" should be corrected to "Codominant".

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

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Does the work include the necessary controls?
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