Reviewer’s report

Title: Rare variant of HSPG2 is not involved in the development of adolescent idiopathic scoliosis: evidence from a large-scale replication study

Version: 0 Date: 01 Dec 2018

Reviewer: Marcelo Wajchenberg

Reviewer's report:

Excellent paper. I suggest the following:

1- To write more about the phenotypic relationship that may exist between Rare variant of HSPG2 and AIS. What are the possible clinical manifestations of this rare variant?

2- I would like the authors to better specify the location of the muscle where the expression of the HSPG2 gene was studied. Were the multifidus? In patients with AIS, was the muscle removed from the concavity or convexity? Was it withdrawn at the apex of the curve?

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

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited

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