Reviewer’s report

Title: Expression of adiponectin in the subchondral bone of lumbar facet joints with different degrees of degeneration.

Version: 1 Date: 17 Aug 2017

Reviewer: Agata Burska

Reviewer's report:

The authors addressed all of comments and changes requested. Manuscript reads better and figures are more clear in the present form.

However still minor improvements are needed:

By doing some corrections to ELISA section authors now deleted essential information on which molecules were actually tested by Elisa and by which ELISA kit (incl manufacturer) this information was provided in the first submission "L-1β, TNF-α, leptin, and adiponectin by specific ELISA kits (RayBiotech, Inc.)." Please add this information back to this section.

The description of manufacturer protocol for ELISA is too extensive in the new version and has to be shortened.

Also please replace term "hole " into well.

On some figures abbreviation of Adi was added which is not introduced in the text and most of the figures have full name rather than this abbreviation- change to full name for consistency.

Fig 2. Remove decimals on the X and y axis and move the equation to the corner also it would be better to show r value +/- p value rather that equation as its more informative

In the Qualitative analysis of adiponectin by IHC section starts ( *** ) in brackets are given, this is not proper form of expressing significant difference in the text . Remove stars and keep p values. The starts should be explained in the legends under the figures where appropriate.

In the results' sections: Qualitative analysis of adiponectin by IHC and WB the last sentences are rather conclusions than results and should be moved to discussion/conclusion section.

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

No
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:

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