Reviewer's report

Title: An immunohistochemical study of the antinociceptive effect of calcitonin in ovariectomized rats

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Reviewer: Milka Sekulic

Reviewer's report:

Takayama et al described the effects of subcutaneous calcitonin administration on the number of C-Fos-immunopositive neurons in the samples of spinal cord (L5) of ovariectomized rats. The study is properly designed to address the author's questions. The applied immunohistochemical and morphometric methods, as well as the statistics seems fine. However, I suggest some changes in the discussion section, which would improve the quality of the paper:

- page 14, 9th line: "Our results suggest that repeated systemic injection...has an antinociceptive effect" - Since the authors did not show any behavioral results in this study, they should relate their immunohistochemical findings with the behavioral results of their previous or someone else results.

- page 14, 13th line-till the end of the paragraph: "Our results seems to be consistent with this mechanism, but conflict with it because..." The part of the discussion related to the possible serotoninergic mechanism of antinociceptive calcitonin action should be rephrased. The authors should make their points clear and easy for reader to follow (what are pros and cons?).

- the manuscript has many typing errors that should be corrected

- please check the last sentence in the abstract (behavioral and electrophysiological study???)

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests