Reviewer’s report

Title: COL5A1 rs12722 polymorphism is not associated with passive muscle stiffness and sports-related muscle injury in Japanese athletes

Version: 0 Date: 14 Aug 2019

Reviewer: Sabrina Corbetta

Reviewer's report:

The manuscript by Miyamoto-Mikami et al. reports about negative results in investigating the association between the polymorphic variant rs12722 of the COL5A1 gene coding for the collagen type V α1 chain gene and joint flexibility, muscle stiffness and sports-related muscle injury in a wide series of Japanese athletes from different disciplines. The Authors speculated about the lack of association considering the low prevalence of the rare variant TT of the rs12722 polymorphism.

Their results are in contrast with previously reported data in different series. The study is well conceived, the manuscript is well written.

The Authors should stress that the results presented in the manuscript are limited to the Japanese athletes; therefore I suggest to change the title in "COL5A1 rs12722 polymorphism is not associated with muscle stiffness and sports-related muscle injury in Japanese athletes” and to highlight the item throughout the manuscript.

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 recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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