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OPEN PEER REVIEW

Evaluation of Frequency of PGC1-α and CKMM Genes Polymorphisms Among Iranian Elite Hockey Athletes

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 7 Aug 2021 – 14 Aug 2021

Referee 1 Reviewer

MAJOR REVISION 7 Aug 2021

Dear Authors:
- The materials and methods section of the abstract should be written briefly.
- The Introduction section is very long and needs much work to improve it.
- Add company and country names for all materials used (or software), kits, culture media, chemical compounds, software, and so on.
- The authors of the article should discuss the PPARGC1A gene or the PGC-1α protein, because using both at the same time confuses the reader. Please correct this throughout the original text.
- Start the discussion by presenting your main findings.
- In general, the discussion can be structured better. There is substantial overlap and repetition between the Result and the Discussion sections.
- Review spaces and grammar throughout the manuscript. There are many spacing errors or typos that should be corrected, and some English corrections are also needed.

Associate Editor

MAJOR REVISION 14 Aug 2021

Based on the reviewers' comments and my reading of the manuscript, major revisions and a point-by-point response to the comments are needed.

Editor-in-Chief

MAJOR REVISION 14 Aug 2021

Based on the reviewers' comments and my reading of the manuscript, major revisions and a point-by-point response to the comments are needed.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Date: 9/7/2021

Dear Editor-in-Chief Prof. Zahra Heidari

We sincerely thank the reviewer for constructive criticisms and valuable comments, which were of great help in revising the manuscript. Accordingly, the revised manuscript has been improved. Our responses to the referee's comments are given below. The revised sentences have been highlighted in the manuscript.

Sincerely,

Reviewer's comments:

Reviewer 1:

- The materials and methods section of the abstract should be briefly written.

Response: It has been made. Line 10-14. It is worth mentioning that the abstract has been revised completely..

- Introduction section is very long and needs much work to improve it.

Response: the introduction has been shortened and improved. The added words or sentences have been highlighted. Line 26-62.

- Add company and country names of all used materials (or software), kits, culture media, chemical compound, software and so.

Response: company names of materials and software have been added. Line 89, 93-94 and 98.

- The authors of the article should talk about the PPARGC1A gene or the PGC-1α protein, because using both at the same time confuses the reader. Please correct along the original text.

Response: in the context of the manuscript has been revised and corrected.

- Start the discussion by presenting your main findings.

Response: It has been revised. 129-132

- In general, the discussion can be structured better. There is a substantial overlap and repetition between the Result and the Discussion sections.

Response: We appreciate this recommendation. The whole section has been revised and restructured. .

- Review spaces and grammar throughout the manuscript. Many spacing or typo errors which should be corrected, as well as some English corrections.

Response: the English language has been edited.

Reviewer 2:
Dear editor
Manuscript is suitable I give some comment for authors.
1- Sections name is not according the journal please check it for example section 3

Response: It has been corrected based on the Journal guideline.
2- It is better to write table legends at the end of manuscript after references

Response: as reviewer suggested, the legends moved to the end of the manuscript. Page 12
3- Repeated use in this study is not appropriate in the discussion section. Please start the second one with another word

Response: Thanks for the reviewer criticism. It has been revised and some of them highlighted in the manuscript. For example: line 31, 33, 35, 38.
4- Table format is not according to journals style.

Response: the tables have been revised according to the journal guideline. But we should mention that since we have phenotypes and alleles, it is better to show both in one table.

Reviewer 3:
The authors did valuable research on the relationship between genetics and sports activity, and the article is well written in terms of science and writing

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2 Revision 1

3 comments · 17 Sep 2021 – 18 Sep 2021

Referee 2 Reviewer

ACCEPT 17 Sep 2021

The manuscript entitled " Evaluation of the frequency of the PGC1-α and CKMM gene polymorphisms among Iranian elite hockey athletes " has undergone peer review, and the authors have now addressed the major concerns of the reviewers. More specifically, they have also included a point-by-point response to the reviewers in addition to making the changes described in the manuscript. Consequently, I do consider the manuscript suitable for publication in its present form.
Sincerely,

Associate Editor

ACCEPT 17 Sep 2021

Dear Author,
We have read your manuscript entitled " Evaluation of the frequency of the PGC1-α and CKMM gene polymorphisms among Iranian elite hockey athletes". The revisions that you made to the manuscript are very effective in addressing the remaining concerns. Our decision is to accept the manuscript for publication in the Gene, Cell and Tissue journal. Please consider this letter notification of the formal acceptance of your manuscript. Thank you for your patience with the review process.
sincerely,

Editor-in-Chief

ACCEPT 18 Sep 2021

Based on the reviewer's and AE's comments, the revisions were completed well. Thus, this manuscript can be accepted for publication in GCT.