

Format for ANSWERING REVIEWERS

December 18, 2014

Dear Editor,



Please find enclosed the edited manuscript in Word format (file name: 14721-review.doc).

Title: Structural properties of scaffolds: Crucial parameters towards stem cells differentiation

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Name of Journal: *World Journal of stem cells*

ESPS Manuscript NO: 14721-edited

The manuscript has been improved according to the suggestions of reviewers:
1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

(1) **Comment 1:** Introduction: The cells used for orthopaedics and musculoskeletal tissue regeneration may be specified in page 3.

Clarification: It is specified and highlighted in revised manuscript.

(2) **Comment 2:** The reason why recent studies have focused on the selection of an appropriate biomaterial may be added in page 4.

Clarification: We stated and highlighted the reason in the page 4 of revised manuscript.

(3) **Comment 3:** Main text: In 2. Effect of scaffold composition on stem cell differentiation, the possibility of the synthetic materials to induce immune response may be discussed.

Clarification: The possibility of the synthetic materials to induce immune response is included and highlighted in revised manuscript (page 6).

(4) **Comment 4:** The safety of polyethyleneglycol and collagen may also be discussed.

Clarification: New sentences regarding to safety of collagen and PEG are included and highlighted in revised manuscript (pages 6 and 7).

(5) **Comment 5:** The usage of polypropylene and nylon-6 polymers for fabrication of scaffolds and modification may be discussed more precisely in page 8.

Clarification: More explanation is included and highlighted in revised manuscript (page 8).

(6) **Comment 6:** Please cite the reference describing *in vivo* studies showing significantly high trabecular bone formation for the crosslinked gelatin implanted animals (6.1 Bone

section).

Clarification: The reference is cited in revised manuscript (page 22).

(7) **Comment 7:** References: Please check reference 42 and 48.

Clarification: References 42 and 48 were checked.

(8) **Comment 8:** Figures: Regarding to figure 4, the explanation for the matrix stiffness of organs may be added. The reference should be appropriately cited in the text.

Clarification: Explanation is included and highlighted in revised manuscript.

(9) **Comment 9:** There needs to be improved specially in English.

Clarification: English is improved and changes is highlighted in revised manuscript.

(10) **Comment 10:** Please be advised to reconfirm the permission of reproduced figures.

Clarification: It is confirmed.

(11) **Comment 11:** Conclusion: Minor revision

Clarification: Minor revision was done and highlighted in revised manuscript.

Thank you again for publishing our manuscript in the *World Journal of stem cells*.

Sincerely yours,

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