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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 14721

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

Reviewer's code: 00505755

Reviewer's country: Japan

Science editor: Xiu-Xia Song

Date sent for review: 2014-10-22 15:09

Date reviewed: 2014-11-13 15:28

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	PubMed Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

General comments (1) The importance of the research and the significance of the research findings This research focuses on the effect of scaffold towards MSC morphology and differentiation, which are significant points in the application for cellular therapy. (2) The novelty and innovative nature of the research The research is innovative in terms of focusing on nanofibrous scaffold comparisons. (3) The quality of the manuscript's presentation and readability Figures are presented well, however there needs to be improved especially in English. (4) The ethics-related aspects of the research N/A

Specific comments Title: It reflects the major topic and contents of the study. Abstract: It describes the objectives and context of the manuscript to focus on effects of scaffolds in stem cell differentiation. Introduction: The cells used for orthopaedics and musculoskeletal tissue regeneration may be specified in page 3. The reason why recent studies have focused on the selection of an appropriate biomaterial may be added in page 4. 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. The safety of polyethyleneglycol and collagen may also be discussed. The usage of



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polypropylene and nylon-6 polymers for fabrication of scaffolds and modification may be discussed more precisely in page 8. Please cite the reference describing in vivo studies showing significantly high trabecular bone formation for the crosslinked gelatin implanted animals (6.1 Bone section). References: Please check reference 42 and 48. 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.