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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 42863

Title: Human adult pluripotency – facts and questions -

Reviewer's code: 03197771

Reviewer's country: Spain

Science editor: Ying Dou

Date sent for review: 2018-10-15

Date reviewed: 2018-10-17

Review time: 2 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The Editorial "Human adult pluripotency-facts and questions" presents time-line advances on stem cell biology knowledge, nicely highlighting the knowns and unknowns. With the exception of recommending briefly mentioning preconditioning of adult stem cells as strategies to increase stem cell endurance in cell-based therapeutics,

or perhaps linking recent findings as reported in the following publication: Bashiri H, Amiri F, Hosseini A, Hamidi M, Mohammadi Roushandeh A, Kuwahara Y, Jalili MA, Habibi Roudkenar M. Dual Preconditioning: A Novel Strategy to Withstand Mesenchymal Stem Cells against Harsh Microenvironments. Adv Pharm Bull. 2018 Aug;8(3):465-470. doi: 10.15171/apb.2018.054. with the STAP controversy could further complete the picture of main areas of research in stem cell biology. Minor typographic recommendations include: - Terms "in vivo" and "in vitro" should be italicized -Abbreviated terms should be fully explained in its first appearance in text, missing for "MPTCs" and "STAP" -Review format of cites, many with bracketed numbers following authors names and typing mistakes, like Ref [48] -Add et al., after first 6 authors -There are 2 Fig.2 legends (correct "stess" in Fig 2 legend) -Page 1, line 8 review text in brackets Page 2, line 38 review fragmented sentence, before "Anti-aging" and add a verb to the sentence starting "It worth..." afterwards - Terms "ca as"; { instead of [twice in text; some brackets unneeded and other missing, remove "(4F)"; "isle" for islet -Page 3, line 1, remove "after" -Bold subtitle "Bone..." -Review punctuation throughout the document -Page 5, add the term "differentiated" following "terminally"

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title



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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 42863

Title: Human adult pluripotency – facts and questions -

Reviewer's code: 00609434

Reviewer's country: Italy

Science editor: Ying Dou

Date sent for review: 2018-10-15

Date reviewed: 2018-10-17

Review time: 2 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript from Labusca et al. is an interesting review describing the recent findings about the isolation from mammalian natural tissues, or the production in stressful culture conditions, of pluripotent stem cells from adult, differentiated cell types. The review is very interesting and updated in its collection and description of current

knowledge on these very elusive cells with great applicative potential, and the authors describe very well what are the still open questions and challenges for this rising scientific field. I find it worthy of publication after a minor revision: 1. English should be thoroughly checked (I saw several errors) and corrected (for example remember that “phenomena” is the plural word for "phenomenon"). 2. Page 7-12, References: please check the style of the references, there are often numbers between brackets after an author name, I don't understand what they mean. 3. Page 13, Table 1: in the legend you mention an asterisk marking the Yamanaka factors, but in the Table no asterisk is present, please correct. 4. Page 14: please change “Figure 2” with the appropriate “Figure 1”. Furthermore, in the legend you mention two kinds of interactions: a) undirected (mutual) and b) directed, but in the figure is not possible to understand which interactions are type a) and which are type b), please clarify. 5. Page 15, Figure 2: Please correct the sentence “Normal human dermal fibroblasts (NHDF) cell line after 48 hours intentional absence of CO₂ in the incubator have modified their morphologic characteristic and adopt culture appearance of pluripotent cells A.” with “A) Normal human dermal fibroblasts (NHDF) cell line after 48 hours intentional absence of CO₂ in the incubator have modified their morphologic characteristic and adopt culture appearance of pluripotent cells.”

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 42863

Title: Human adult pluripotency – facts and questions -

Reviewer's code: 02495033

Reviewer's country: South Korea

Science editor: Ying Dou

Date sent for review: 2018-10-15

Date reviewed: 2018-10-30

Review time: 15 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

WJSC-42863 In the present review, the authors explained in detail about the human adult stem cell pluripotency, especially focusing on dedifferentiation conditions. The review may provide readers and investigators with good information. However, it is recommended that “ageing (factors)”-related effects should be added. There are many

reports on the alterations in proliferative capacity and pluripotency in cells collected from aged people (patients). Please describe full names for several abbreviations in the manuscript, and check the typographical errors.

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