



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 13864

Title: From cellular to chemical approach for acute neural and alternative options for age-induced functional diseases

Reviewer’s code: 02446158

Reviewer’s country: Belgium

Science editor: Fang-Fang Ji

Date sent for review: 2014-09-05 09:35

Date reviewed: 2014-12-12 08:15

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input 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 type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input checked="" 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

The therapeutic strategy to target endogenous stem cell niche is a quite interesting approach of regenerative medicine. In the current submitted review, the author proposes/discusses the use of sex steroids as potential candidates to induce an activation of the endogenous niche which may efficiently facilitate/potentiate tissue regeneration. The review proposes this innovative view which can also help to address the right treatment for the right disease. The submitted review merits its publication after addressing the following comments. - The title should be adapted to the content of the review (only neural system discussed and very few information was provided for cardiac tissue). The clinical proposal cannot also be supported by what is provided in the manuscript (no in vivo/preclinical data discussed) - The abstract should be rewritten for more clearness and a better quality of the key home message. It should also be more concise. - In the introduction part, only ESC and iPSC were cited as exogenous cells that have been tested. The Somatic stem/progenitor cells cannot be ignored as hundreds of clinical trials have been documented so far. - The rationale of proposing sex steroids is lacking and should be clearly exposed. - The two paragraphs describing



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the experimental details regarding the sex steroids in in vitro experiments (page 3) should be more summarized and strengthened/completed by available in vivo data. The alternative is to discuss what is needed/lacking before the translation of their use for tissue regeneration contexts in human

- How is the sex steroids level in the diseases discussed in the manuscript? Is there significant differences?
- How are the steroids effects on the immune system? on young and aged MDC?
- Typo errors to correct and bibliography to check again (as for ref 21)
- What about the effects of these sex steroids on non-altered tissues? How is the quality of receptor responses which could be related to subtypes, to level of expression....
- Why some young patients display an efficient exogenous cell therapy compared to adult ones?
- Potential limitations and why sex steroids, among other chemical approaches, could be appropriate should also be discussed?

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 13864

Title: From cellular to chemical approach for acute neural and alternative options for age-induced functional diseases

Reviewer's code: 01002592

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2014-09-05 09:35

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input 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 type="checkbox"/> Minor revision
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Interesting and attractive review, of scientific interest. My only concern is related to the Title because it is similar to another title and publication of the same author (cited #27). I can suggest a more attractive one such as: "From cellular to chemical approach in regenerative medicine: clinical proposals for acute and age-induced neural and cardiac diseases" or another one with the emphasis on the different future approach.