

## ESPS PEER REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**ESPS manuscript NO:** 12861

**Title:** Epigenetic therapy of cancer stem and progenitor cells by targeting DNA methylation machineries

**Reviewer code:** 02528139

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2014-07-28 19:21

**Date reviewed:** 2014-08-11 07:10

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [ Y] Accept
<input type="checkbox"/> [ Y] Grade B: Very good	<input type="checkbox"/> [ Y] Grade B: Minor language polishing	<input type="checkbox"/> [ ] Existing	<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"/> [ ] No records	<input type="checkbox"/> [ ] Rejection
<input type="checkbox"/> [ ] Grade D: Fair	<input type="checkbox"/> [ ] Grade D: Rejected	BPG Search:	<input type="checkbox"/> [ ] Minor revision
<input type="checkbox"/> [ ] Grade E: Poor		<input type="checkbox"/> [ ] Existing	<input type="checkbox"/> [ ] Major revision
		<input type="checkbox"/> [ ] No records	

## COMMENTS TO AUTHORS

Dr. Wontgtrakoongate described review article that summarized the epigenetic therapy of cancer stem and progenitor cells by targeting DNA methylation machineries. The focus of this review article is very important. Moreover, the contents of this review article could include enough information. However, several minor improvements are required. 1. They should use table to summarize the section of Inhibition of epigenetic pathways in cancer stem and progenitor cells. 2. The Figure legends is necessary to explain their figures.

## ESPS PEER REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**ESPS manuscript NO:** 12861

**Title:** Epigenetic therapy of cancer stem and progenitor cells by targeting DNA methylation machineries

**Reviewer code:** 00225340

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2014-07-28 19:21

**Date reviewed:** 2014-09-05 20:11

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

Comments This manuscript deal with the potential use of inhibitor drugs of DNA metilation (Aza-cytidine, Aza-deoxycytidin) as therapeutic agents against cancer stem cells. Thereby representing a particular application of epigenetic therapy. The data are well described and the approach to discuss about each tumor is interesting. However, I would like to stress not only the positive activities of such an approach, but it could be useful also discuss about the potential toxicity of the epigenetic treatments. An aspect too much neglected. Minor problems: Some errors are present in the text (see line 2 pag 7, where the word "organization" is written twice).