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## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 13423

**Title:** Rat embryonic stem cells create new era in development of transgenic rat models

**Reviewer's code:** 00546602

**Reviewer's country:** Australia

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2014-08-23 09:54

**Date reviewed:** 2014-08-23 17:34

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> [ ] 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 type="checkbox"/> [ Y] No	<input 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 type="checkbox"/> [ Y] No	

### COMMENTS TO AUTHORS

Transgenesis in rat have been an issue for sometime and this review adds new information on this subject and reviewed the existing knowledge comprehensively giving perspectives. The MS is suitable for publication after necessary references are added for Figure 1 and 2 at page 17 and 18 indicating whose work the authors are citing in these figures?



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## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 13423

**Title:** Rat embryonic stem cells create new era in development of transgenic rat models

**Reviewer's code:** 02446025

**Reviewer's country:** United States

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2014-08-23 09:54

**Date reviewed:** 2014-09-13 03:31

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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 type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		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

Rat embryonic stem cells indeed a useful resource and tool for studying gene targeting and modification. The authors reviewed good enough literatures and provided plentiful information in this review. However, the review seems like focusing on using rat ES cells to create knock-in and knock-out rat model. Major comments: 1. The title is too general and is not exactly represent what the content is, suggest changing it to fit the content of this review, e.g., "in development of transgenic rat model" instead of "in Scientific Development". 2. The organization of each topic is less logistic; it is hard to follow the topics. It would be helpful to use couple of main topic such as "Isolation, characterization, and maintenance of rat es cells", "rat es cells generated knock-in and knock-out model", then well-organize all topics under these main topics. 3. It's not clear if those data in the figures are cited or generated by authors. Minor comments: Please correct some typos and polish the language.