



# BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

http://www.wjgnet.com

## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 12783

**Title:** Sox2 transcription network regulates properties of neural stem cells throughout the lifetime

**Reviewer code:** 02929990

**Science editor:** Ling-Ling Wen

**Date sent for review:** 2014-07-26 22:58

**Date reviewed:** 2014-08-02 15:38

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 checked="" 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 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 checked="" 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

Dear Editor in Chief of World Journal of Stem Cells Here, we have finished the reviewing of the manuscript which entitled "Sox2 transcription network regulates properties of neural stem cells throughout the lifetime" by Koji Shimozaki et al. This review manuscript would contain useful information for the readers of the World Journal of Stem Cells, then acceptable for the Journal. However, for the better understanding of the readers, the below listed point would better to be involved. 1) The figures for the molecular signaling pathway The author listed the several functions of Sox2, such as re-programming process. The function of Sox2 and its down streams would better to summarized into the Figures to get the better understanding of the readers. We hope our suggestion would help to increase the scientific significance of the manuscript.



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## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 12783

**Title:** Sox2 transcription network regulates properties of neural stem cells throughout the lifetime

**Reviewer code:** 02595699

**Science editor:** Ling-Ling Wen

**Date sent for review:** 2014-07-26 22:58

**Date reviewed:** 2014-08-07 03:54

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 type="checkbox"/> 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

The manuscript by Shimozaki reviewed the key findings on Sox2 in NSCs. The manuscript focused on the network involving the Sox2-centred partner code and its target genes. Also, it detailed some points that could be pursued in future studies. However, several point need to be addressed as the following: - The manuscript should be supported with at least one figure. Furthermore, if is it possible, an additional table will improve the manuscript. - The role of Sox2 during pre-implantation embryo stage and during early differentiation stage should be discussed with more details. - In Page 5: the sentence "that suppresses differentiation regulators" should be replaced with "that suppresses differentiation activators". Because the regulators may refer to activators and/or suppressors of the differentiation, which was not meant in the sentence above. - In Page 6, under the title "STEM CELL REPROGRAMMING AND THE SOX2 GENE NETWORK", the author mentioned, " In the process, the transcriptional network is switched on to generate multipotent stem cells". The word "multipotent" should be replaced with "pluripotent". Also, in the following sentence "In the multipotency induction process", the word "multipotency" should be replaced with "pluripotency". - In "CONCLUSION", the word "author" should be replaced with "I".



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## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 12783

**Title:** Sox2 transcription network regulates properties of neural stem cells throughout the lifetime

**Reviewer code:** 02773843

**Science editor:** Ling-Ling Wen

**Date sent for review:** 2014-07-26 22:58

**Date reviewed:** 2014-08-07 12:13

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 type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D: Fair		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

### COMMENTS TO AUTHORS

In the manuscript "Sox2 transcription network regulates properties of neural stem cells throughout the lifetime", the author reviewed the Sox2 transcription regulatory network that maintains self-renewal and multipotency of NSCs. The author try to "Detail understanding of these molecular mechanisms" and help us to "understand basic neuroscience and increase feasibility of the cell reprogramming technology in regenerative medicine". To publish, the manuscript needs to be reorganized and the language needs to be polished. First, the title is too big and the content is only part of the title. Second, it is not detail enough. "In NSCs, neuron-specific genes are suppressed by the specific corepressors", what are these specific corepressors and how do they work? The author should narrow down his/her subject and detail how Sox2 and its partner works. Third, the language needs to be edited and polished. The manuscript needs to be reorganized to make it clearly understandable.