

# ESPS Peer-review Report

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

**ESPS Manuscript NO:** 7704

**Title:** Sox2, a Key Factor in Regulation of Pluripotency and Neural Differentiation

**Reviewer code:** 02773801

**Science editor:** Ling-Ling Wen

**Date sent for review:** 2013-11-29 21:39

**Date reviewed:** 2014-02-11 05:54

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"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" 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 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"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

It is of interest to read the review article "Sox2, a Key Factor in Regulation of Pluripotency and Neural Differentiation", which tried to address the role of the transcription factor Sox2 in pluripotent stem cells and neural progenitor cells. A lot of informations were provided in this review, yet unfortunately they were not properly articulated. Several abbreviations in this article were not defined, and appropriate full names should be spelled out at the first time when that abbreviation appeared. My comments were listed below: Abstract Line 1, the full name of Sox2 should be provided. Text Page 1 Line 15, should be "effects" on expression levels of intrinsic transcription factors through..... Page 2 Line 4-7, the two sentences "Specific target genes are ..... Interaction with other cofactors also....." are not clear. Please be more specific. Line 17, should be "Sox2 is embryonically lethal". Line 18, should be a period sign between two sentences. Line 24-27, ESCs from ICM were discussed, and all of the sudden "hESCs and their counterparts, iPSC,....". Such transition does no make too much sense to me. Please provide some background information if new concepts are introduced. In addition, appropriate abbreviations should be noted when appear for the first time. For examples, hESC and mESC were never defined. Page 3 Line 1-4, it is not clear why Sox2 is crucial to maintain pluripotency since Oct4 can compensate Sox2 function. Line 17, did you refer to "differentiating", instead of "developmental"? Line 19, remove "between Sox2 and Oct4" Line 19, please define HMG and POU Line 32, should be "bind to the canonical subset..." Line 33, remove "the activation of" Page 4 Line 5, should be "central nervous system" Line 6-14, please focus on the function of Sox2 in neural cells and consider to remove Oct4 and Nanog Line 15-16, are you trying to address the self-renewal of neural stem cells? This sentence is not clear. Line 19, "promoting pre-exist



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from cell cycle" is not a complete sentence Line 20, what is "NPC"? Please define. Line 24-25, remove "it is evident that" Page 5 Line 32, "differentially" or "specifically"? Page 6 Line 2, "wheras", typo