

August 29, 2014

Dear Editor,



Please find enclosed the edited manuscript in Word format (file name: 12783-edited.doc).

Title: The Sox2 transcription network acts as a molecular switch to regulate properties of neural stem cells

Author: Koji Shimozaki

Name of Journal: *World Journal of Stem Cells*

ESPS Manuscript NO: 12783

The manuscript has been improved according to the suggestions of reviewers:

1 The format has been updated for Minireviews.

2 Revisions have been made according to the reviewers' suggestions.

(Reviewer1)

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.

- **According to the reviewer's suggestion, the title was changed to properly reflect the content of this work.**
- **To narrow the focus of the manuscript, the sentences from lines 7 to 9 on page 5 of the previously submitted manuscript were deleted.**
- **As suggested by the reviewer, native English speakers have polished the manuscript.**

(Reviewer2)

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".

- - According to the reviewer's suggestion, figures were added to the manuscript.

-

- - A discussion of the roles of Sox2 during the pre-implantation embryo stage and the early differentiation stage was added to the manuscript (from Page 3, line 33 to Page 4, line 11).

-

- - The sentences from 7 to 9 of Page 5 were deleted to narrow the focus of the manuscript. According to the reviewer's suggestion, "multipotent" and "multipotency" were corrected to "pluripotent" and "pluripotency", respectively. The word "author" was replaced with "I" in the manuscript.

-

(Reviewer3)

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 be summarized into the Figures to get the better understanding of the readers.

-According to the reviewer's suggestion, figures summarizing the genes and proteins involved in gene-induced cell reprogramming and the Sox2 transcription network were added to the manuscript.

3 The references and typesetting were corrected, and the manuscript was edited and polished by Nature Publishing Group Language Editing.

Thank you again for publishing our manuscript in the *World Journal of Stem Cells*.

Sincerely yours,

.....
.....

Koji Shimozaki, PhD
Division of Functional Genomics
Center for Frontier Life Science
Nagasaki University
1-12-4, Sakamoto, Nagasaki, Japan
Tel: +81-95-819-7191
Fax: +81-95-819-7178
E-mail: shimozak@nagasaki-u.ac.jp