ANSWERING REVIEWERS

May 19, 20152

Dear Editor, doc
Please find enclosed the edited manuscript in Word format (file name: 13864-review.pdf).

**Title:** From cellular to chemical approach for acute neural and alternative options for chronic and age-induced functional diseases

**Author:** Antonin Bukovsky
**Name of Journal:** *World Journal of Stem Cells*
**ESPS Manuscript NO:** 13864

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

2 Revision has been made according to the suggestions of the reviewers

**Referee #01002592**
The Title was adjusted as follows:
"From cellular to chemical approach for acute neural and alternative options for chronic and age-induced functional diseases"

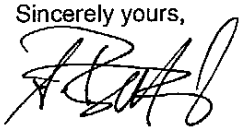
**Referee #02446158**

(1) The cardiac issue was removed from the title
(2) The clinical proposal was preceded with the following statement:
"The consideration of sex steroid treatment provided below is based on the sex steroid doses utilized for other clinical applications. It is recommended that before any clinical trial, the relevant doses of sex steroid combinations are tested in animal studies."
(3) The abstract has been rewritten
(4) The Somatic stem/progenitor cells were included in Introduction.
(5) The *in vivo* data on circulating sex steroid combinations in human fetuses were referenced, and a need for animal experiments were indicated (see above).
(6) It is indicated that sex steroids decline in aging individuals and a clinical trial on the lack of effect of androgens alone on alteration of a cognitive function is included.
(7) Typo errors were corrected.
(8) A presence of sex steroid combinations accompanying normal human fetal development is referenced.
(9) The cell receptor responses are demonstrated in tissue cultures influenced by distinct doses of sex steroids alone and their combinations.
(10) Efficient exogenous cell therapy in young patients is caused by their regular SCN conditions compared to older ones, where the SCN immune system components are altered due to the well documented age-induced immune system regression.
(11) The advantage of sex steroid utilization vs. other chemicals is discussed.
(12) Additional novel options to treat or ameliorate aging and chronic functional diseases are included.

References and typesetting were corrected - the PMID are included where available:

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

Sincerely yours,



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