

OPEN PEER REVIEW REPORT 1

Name of journal: Neural Regeneration Research

Manuscript NO: NRR-D-18-00857

Title: RNA-Seq screening of differentially expressed genes after spinal cord injury and

verification of some genes Reviewer's Name: Li Yao Reviewer's country: USA

Date sent for review: 2018-12-10

Date reviewed: 2019-01-01 **Review time:** 22 days

COMMENTS TO AUTHORS

The article entitled "RNA-Seq screening of differentially expressed genes after spinal cord injury and verification of some genes" demonstrated a study to perform a transcriptome analysis for the spinal cord post-injury. A number of genes were additionally analyzed by qPCR and western blotting. In general the study is interesting and the authors tried to report a new insight into the spinal cord injury. The article can be considered for publication after addressing the following comments.

- 1. The RNA-seq result should be verified.
- 2. The fold change for genes C5ar1, Socs3 and Ccl6 should be standardized in qPCR and RNA-seq study. So the fold change in both study can be better compared.
- 3. No scale bars are provided in the histological images. The scale bar should be included.
- 4. The authors are suggested to improve the impact of the study by including some kind of quantitative analysis for the histological data.