

## PEER-REVIEW REPORT 1

**Name of journal:** Neural Regeneration Research

**Manuscript NO:** NRR-D-18-00481

**Title:** Corneal re-innervation following refractive surgery treatments: a systematic review

**Reviewer's Name:** Michele R. Colonna

**Reviewer's country:** Italy

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### COMMENTS TO AUTHORS

As a plastic and a peripheral nerve surgeon, I read and reviewed with interest this paper but I must recommend you a revision by an ophthalmologist because of expertise on new technologies required.

The paper has been well conceived as an update review of corneal refractive surgery and its effect on corneal innervation. The mechanisms of action of different techniques on corneal nerve repair and regeneration have been thoroughly analyzed, and the Authors pointed out different mechanisms and interesting highlights on neuro-keratoepithelium cross talk and the role of basement membrane. Indeed, tables and data shown are update, figures sound well done and demonstrating their interesting contents. Conclusions sound well pointing out the need of further studies.

I would suggest to better highlight the violet of femtosecond laser in Figure 3.