

Review of: "Systemic and local immune response to intraocular AAV vector administration in non-human primates"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

This manuscript focused on an important but incompletely defined issue in retinal gene therapy, i.e., the humoral immune response. Whilst the authors attempted to investigate the formation of neutralizing antibody to AAV capsids and its effects on gene therapy, more deep research might be needed to strengthen its originality.

Specially, there were two suggestions from us.

Firstly, this work was focused on the generation of anti-AAV capsid neutralizing antibody after AAV administration. Since the authors have had the data on the pre-existing neutralizing antibody to AAV capsids, could they provide the analysis on the relationship between pre-existing AAV antibody and their transduction efficiency?

Secondly, in most figures to demonstrate the dynamics of antibody production before and after vector administration, the authors did not use legends to display attributes of the different curves. Could the authors add this part to facilitate our reading?