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**Sample-size estimation**

* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

Please outline where this information can be found within the submission (e.g., sections or figure legends), or explain why this information doesn’t apply to your submission:

1. We indicate in the statistics section of materials and methods that no statistical method was used to pre-determine the sample size. No randomization or blinding was used for in vivo studies. The sample size was decided from experience of the techniques performed and practical considerations.

2. Every figure legend displays the exact n number and the statistical analyses used in this study. In addition, we provide a Table, Table 2, where Degrees of Freedom as well as F and t values are provided for each relevant figure.

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* You should report how often each experiment was performed
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* Statistical analysis methods should be described and justified
* Raw data should be presented in figures whenever informative to do so (typically when N per group is less than 10)
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(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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* Indicate if masking was used during group allocation, data collection and/or data analysis

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Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, Figure 6, Figure 1-figure supplement 2, Figure 2-figure supplement 1, Figure 3-figure supplement 1, Figure 3-figure supplement 2, Figure 3-figure supplement 3, Figure 4-figure supplement 2, Figure 5-figure supplement 1 and Figure 6-figure supplement 1.