***eLife’s* transparent reporting form**

We encourage authors to provide detailed information *within their submission* to facilitate the interpretation and replication of experiments. Authors can upload supporting documentation to indicate the use of appropriate reporting guidelines for health-related research (see [EQUATOR Network](http://www.equator-network.org/%20)), life science research (see the [BioSharing Information Resource](https://biosharing.org/" \t "_blank)), or the [ARRIVE guidelines](http://www.plosbiology.org/article/info:doi/10.1371/journal.pbio.1000412) for reporting work involving animal research. Where applicable, authors should refer to any relevant reporting standards documents in this form.

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**Sample-size estimation**

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

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Each quantification plot contains data from at least 3 zebrafish larvae. The average and Standard Error of the Mean (SEM) was calculated for the appropriate “n” (3 or 4 as indicated in the manuscript).

**Replicates**

* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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We do not report big data in this manuscript. In all quantitative measurements of imaging, the “n” and statistical methods are mentioned (One side T-test).

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* Statistical analysis methods should be described and justified
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The information regarding number of replicates and statistical analysis is available in figures 2-4 and their associated figure legends.

(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 how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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We provide the numerical data using “source data files” for figures 2-4.