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

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* 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

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No explicit power analysis was used. However, details pertaining to sample sizes for each experiment can be found in individual figures as well as in the Materials and Methods section of the manuscript.

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* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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Information about biological and technical replicates can be found in the Materials and Methods section of the manuscript. Briefly, each experiment was performed on at least three biological replicates. We define biological replicate as animals generated from separate crosses. We did not exclude any outliers.

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* Statistical analysis methods should be described and justified
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* For each experiment, you should identify the statistical tests used, exact values of N, definitions of center, methods of multiple test correction, and dispersion and precision measures (e.g., mean, median, SD, SEM, confidence intervals; and, for the major substantive results, a measure of effect size (e.g., Pearson's r, Cohen's d)
* Report exact p-values wherever possible alongside the summary statistics and 95% confidence intervals. These should be reported for all key questions and not only when the p-value is less than 0.05.

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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 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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Source data files have been provided for Figure 4, Figure 4-figure supplement 1 and 2, Figure 6 and Figure 6-figure supplement 1.