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

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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:

The Methods state: ‘Group numbers were based on prior experiments in the laboratory and literatures searches of studies addressing comparable questions using similar methods. The number of mice tested in each group are provided in the corresponding Figure legends.’

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* You should include a definition of biological versus technical replication
* The data obtained should be provided and sufficient information should be provided to indicate the number of independent biological and/or technical replicates
* If you encountered any outliers, you should describe how these were handled
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The Methods state: ‘Experimental replicates were not conducted.’

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* 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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In the Results section, we describe and identify the statistical analyses used (e.g., ‘mixed model 2-factor analysis of variance (ANOVA), with repeated measures for trial.’ Exact p values (including those for P-values of less than 0.05) are reported up to P<.0001.

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

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In the Results section, we state: ‘For this and all other experiments, prior to testing mice were randomly assigned to experimental groups and habituated to handling for approximately 10 minutes per day for 4 days.’

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Source data are provided in xls format for all behavior data in the main manuscript (i.e., excluding supplemental) Figures.