***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

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Sample size was chosen for the various experiments according to typical numbers of observation in the respective fields (e.g. cellular or systems electrophysiology).

**Replicates**

* You should report how often each experiment was performed
* 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
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* Criteria for exclusion/inclusion of data should be clearly stated
* High-throughput sequence data should be uploaded before submission, with a private link for reviewers provided (these are available from both GEO and ArrayExpress)

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The number of replicates (*n*) and animals (N) are found in the main text, figure captions and legends. The criteria excluding /including data and the technical/ biological replication are stated in the materials and methods section.

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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)
* 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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The statistical analysis is detailed in the materials and methods section. Values are presented as mean ± S.E.M., S.D., *n*, N, *p* values followed by the statistical tests in the main text. All p values are exactly reported until *p* < 0.0001. Sample size (*n* and N) and *p* values are also reported in the figure captions. The figure box plots show 10, 25, 50, 75 and 90th percentiles, means are shown as crosses. The figure graphs display mean (line) ± S.E.M. (shaded areas).

(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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