***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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The number of animals used was estimated based on requirement in similar past projects.

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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
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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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(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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Spike data for the optogenetic experiments

J.L. Csicsvari, I. Gridchyn, P. Schoenenberger , Optogenetic Alteration of  Hippocampal Network Activity, IST Austria, 2020. IST-REx-ID: 8563 https://research-explorer.app.ist.ac.at/