***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

The information on sample sizes is explained in the methods and figure legends in an abbreviated form. The complete information can be found in the source data uploaded with the manuscript and at: [https://github.com/alapsansky/Lapsansky\_Zatz\_Tobalske\_eLife\_2020](about:blank)

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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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* 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)
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All information pertaining to statistical tests are present in the figure legends and results section.

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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

The authors of this study were not masked from the species or fluid identities during analysis because digitization requires the analyzer to view a video of the subject in which the species and fluid are evident. However, given the subject matter, this unlikely to have any influence on the results.

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* We encourage you to upload relevant additional data files, such as numerical data that are represented as a graph in a figure, or as a summary table
* Where provided, these should be in the most useful format, and they can be uploaded as “Source data” files linked to a main figure or table
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Please indicate the figures or tables for which source data files have been provided:

All data and code have been made available at the following link:

[https://github.com/alapsansky/Lapsansky\_Zatz\_Tobalske\_eLife\_2020](about:blank)