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LickCalc: Easy analysis of lick microstructure in experiments of rodent ingestive behaviour

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Software

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Summary

Lick microstructure

Statement of need

`LickCalc` is a software suite that...

microstructural analysis first described in (John D. Davis & Smith, 1992) used more recently to understand (Naneix et al., 2020)

Weibull analysis as described in (J. D. Davis, 1996)

Mathematics

Single dollars ($) are required for inline mathematics e.g. $f(x) = e^{\pi/x}$

Double dollars make self-standing equations:

$$\Theta(x) = \begin{cases} 0 \text{ if } x < 0 \\ 1 \text{ else} \end{cases}$$

You can also use plain LaTeXfor equations

$$\hat{f}(\omega) = \int_{-\infty}^{\infty} f(x) e^{i\omega x} dx \tag{1}$$

and refer to Equation 1 from text.

Citations

Citations to entries in paper.bib should be in rMarkdown format.

If you want to cite a software repository URL (e.g. something on GitHub without a preferred citation) then you can do it with the example BibTeX entry below for (?).

For a quick reference, the following citation commands can be used: - `@author:2001` -> "Author et al. (2001)" - `[@author:2001]` -> "(Author et al., 2001)" - `[@author1:2001; @author2:2001]` -> "(Author1 et al., 2001; Author2 et al., 2002)"

Figures

Figures can be included like this: Caption for example figure. and referenced from text using section .

Figure sizes can be customized by adding an optional second parameter: Caption for example figure.

Acknowledgements

We acknowledge contributions from ...

References

Davis, J. D. (1996). Deterministic and probabilistic control of the behavior of rats ingesting liquid diets. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, *270*(4), R793–R800. https://doi.org/10.1152/ajpregu.1996.270.4.R793

Davis, John D., & Smith, G. P. (1992). Analysis of the microstructure of the rhythmic tongue movements of rats ingesting maltose and sucrose solutions. *Behavioral Neuroscience*, *106*(1), 217–228. https://doi.org/10.1037/0735-7044.106.1.217

Naneix, F., Peters, K. Z., & McCutcheon, J. E. (2020). Investigating the Effect of Physiological Need States on Palatability and Motivation Using Microstructural Analysis of Licking. *Neuroscience*, *447*, 155–166. https://doi.org/10.1016/j.neuroscience.2019.10.036