

CODECHECK certificate 2025-023

github.com/codecheckers/certificate-2025-023/



Table 1: CODECHECK summary

Item	Value
Title	<i>A calibrated optogenetic toolbox of stable zebrafish opsin lines</i>
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Reference	doi.org/10.7554/eLife.54937
Repository	github.com/codecheckers/certificate-2025-023
Codechecker	Linus Dexter Hackel (ORCID: 0009-0000-0114-8005)
Date of check	2025-12-30
Summary	The check was just started.

Table 2: Summary of output files generated

File	Comment	Size (b)
Gapfree_AP_stim.csv	The .csv file containing the gap free AP stimulation.	1870
figure4_1.pdf	Manuscript Figure 4 (Trace: 2019_03_16_0000, Opsin: Cheriff)	16548
figure4_2.pdf	Manuscript Figure 4 (Trace: 18n270027_1, Opsin: Chrimson)	82263
figure4_3.pdf	Manuscript Figure 4 (Trace: 2019_03_19_0038, Opsin: CoChR)	63693
figure9_1.pdf	Manuscript Figure 9 (Trace: 183060053_1, Opsin: NpHR)	235116
figure9_2.pdf	Manuscript Figure 9 (Trace: 2019_08_01_0064, Opsin: GtACR1)	213717

Summary

The check was just started.

CODECHECKER notes

Setting up the environment took a bit of time, as older versions of Python and older Dependencies needed to be properly installed, but it is all very well documented in the README file what dependencies need to be installed and with which version.

Recommendations to the authors

TODO

Citing this document

yooooo

Linus Dexter Hackel (2025). CODECHECK Certificate 2025-023. Zenodo. github.com/codecheckers/certificate-2025-023/

About CODECHECK

This certificate confirms that the codechecker could independently reproduce the results of a computational analysis given the data and code from a third party. A CODECHECK does not check whether the original computation analysis is correct. However, as all materials required for the reproduction are freely available by following the links in this document, the reader can then study for themselves the code and data.

About this document

This document was created using a [jupyter notebook](#) and converted into Markdown via [nbconvert](#) and [pandoc](#). Afterwards it was converted into [Typst](#) using [cmarker](#) and then into PDF using Typst.

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Manifest files

CSV files

Analysis_output/Gapfree_AP_stim.csv

Author comment: *The .csv file containing the gap free AP stimulation.*

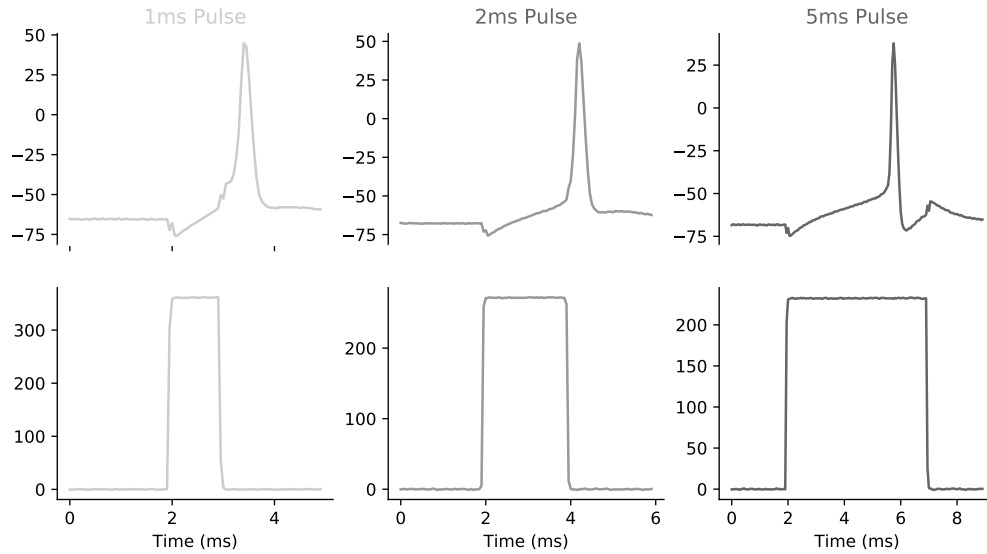
Column summary statistics:

	count	mean	std	min	25%	50%	75%	max
0	8	3.5000	2.4495	0.0000	1.7500	3.5000	5.2500	7.0000

Figures

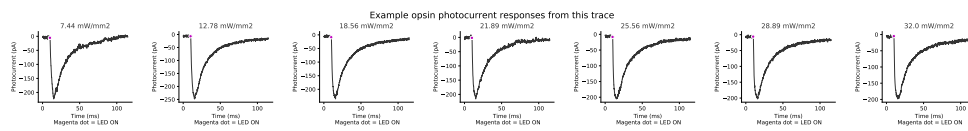
figures/figure4_1.pdf

Author comment: *Manuscript Figure 4 (Trace: 2019_03_16_0000, Opsin: Cheriff)*



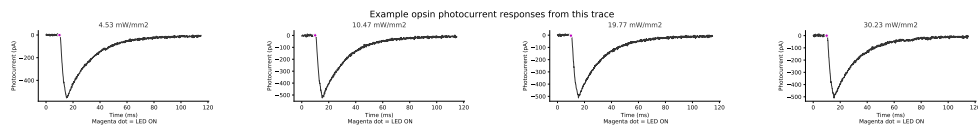
figures/figure4_2.pdf

Author comment: *Manuscript Figure 4 (Trace: 18n270027_1, Opsin: Chromson)*



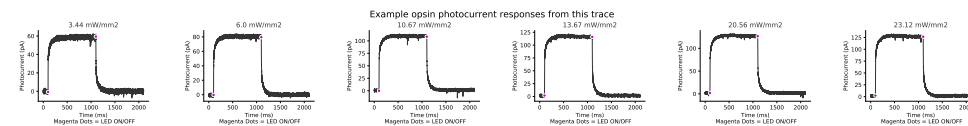
figures/figure4_3.pdf

Author comment: *Manuscript Figure 4 (Trace: 2019_03_19_0038, Opsin: CoChR)*



figures/figure9_1.pdf

Author comment: *Manuscript Figure 9 (Trace: 183060053_1, Opsin: NpHR)*



figures/figure9_2.pdf

Author comment: *Manuscript Figure 9 (Trace: 2019_08_01_0064, Opsin: GtACR1)*

