

Resource Summary Report

Generated by SPARC SAWG on Sep 15, 2026

Online Peri-Event Time Histogram for Open Ephys

RRID:SCR_018022

Type: Tool

Proper Citation

Online Peri-Event Time Histogram for Open Ephys (RRID:SCR_018022)

Resource Information

URL: <https://github.com/hangyabalazs/opeth>

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Description: Software tool to enable flexible online visualization of action potential alignment to external events. Performs spike detection based on raw Open Ephys data exported via ZeroMQ. Requires triggers from Open Ephys for histogram display as spikes are detected around them.

Abbreviations: OPETH

Synonyms: Online Peri-Event Time Histogram

Resource Type: data processing software, data visualization software, software application, software resource

Defining Citation: [DOI:10.1101/783688](https://doi.org/10.1101/783688)

Keywords: Open source, open ephys, optogenetics, behavior, electrophysiology data, neuroscience experiment, spike detection, behavior tagging, neuron, histogram, bio.tools

Funding: European Research Council Starting Grant 715043;
Generalitat Valenciana Postdoctoral Fellowship Program APOSTD/2019/003;
Hungarian Academy of Sciences Lendület Program LP2015-2/2015

Availability: Free, Available for download, Freely available

Resource Name: Online Peri-Event Time Histogram for Open Ephys

Resource ID: SCR_018022

Alternate IDs: biotools:OPeTH

Alternate URLs: <https://bio.tools/OPETH>

License: GNU General Public License v3.0

Record Creation Time: 20220129T080338+0000

Record Last Update: 20260912T195856+0000

Ratings and Alerts

No rating or validation information has been found for Online Peri-Event Time Histogram for Open Ephys.

No alerts have been found for Online Peri-Event Time Histogram for Open Ephys.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Hegedüs P, et al. (2024) Parvalbumin-expressing basal forebrain neurons mediate learning from negative experience. Nature communications, 15(1), 4768.

Hegedüs P, et al. (2023) Cholinergic activity reflects reward expectations and predicts behavioral responses. iScience, 26(1), 105814.

Kocsis B, et al. (2022) Huygens synchronization of medial septal pacemaker neurons generates hippocampal theta oscillation. Cell reports, 40(5), 111149.

Széll A, et al. (2020) OPETH: Open Source Solution for Real-Time Peri-Event Time Histogram Based on Open Ephys. Frontiers in neuroinformatics, 14, 21.