

# Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 8, 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:** software resource, software application, data visualization software, data processing software

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

**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:** 20260808T190112+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## 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.