

# Resource Summary Report

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## Stimfit

RRID:SCR\_016050

Type: Tool

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### Proper Citation

Stimfit (RRID:SCR\_016050)

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### Resource Information

**URL:** <https://github.com/neurodroid/stimfit>

**Proper Citation:** Stimfit (RRID:SCR\_016050)

**Description:** Software for viewing and analyzing electrophysiological data. It features an embedded Python shell that allows you to extend the program functionality by using numerical libraries such as NumPy and SciPy.

**Resource Type:** data analysis software, data processing software, software application, software resource

**Defining Citation:** [PMID:24600389](#)

**Keywords:** electrophysiology, python, numpy, scipy, numerical, library, stimulus, analysis

**Funding:** European Research Council ;  
Gatsby Charitable Foundation ;  
Wellcome Trust

**Availability:** Free, Available for download

**Resource Name:** Stimfit

**Resource ID:** SCR\_016050

**License:** GNU GPL 2.0

**Record Creation Time:** 20220129T080328+0000

**Record Last Update:** 20260905T132803+0000

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### Ratings and Alerts

No rating or validation information has been found for Stimfit.

No alerts have been found for Stimfit.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Guinet A, et al. (2026) Spatial Organization of Morpho-Electric Subtypes of Pyramidal Neuron in the Subiculum. *Hippocampus*, 36(2), e70081.

Engel D, et al. (2026) Protocol for whole-cell patch-clamp recording and post hoc identification of hippocampal CA2 pyramidal neurons in adult mouse brain slices. *STAR protocols*, 7(2), 104470.

Kim T, et al. (2026) Vessel segmentation for  $\chi^2$ -separation in quantitative susceptibility mapping. *Magnetic resonance in medicine*, 95(1), 382.

Morency DT, et al. (2026) Temporal and Cell-Specific Regulation of Synaptic Homeostasis by the Chromatin Remodeler Chd1. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(33), e10538.

Quadir SG, et al. (2025) Alcohol Withdrawal Alters the Inhibitory Landscape of the Prelimbic Cortex in an Interneuron- and Sex-specific Manner. *Addiction neuroscience*, 17.

Li X, et al. (2025) Homeostatic scaling of dynorphin signaling by a non-canonical opioid receptor. *Nature communications*, 16(1), 6786.

Chen C, et al. (2024) Neural circuit basis of placebo pain relief. *Nature*, 632(8027), 1092.

Breyer M, et al. (2024) In vitro characterization of cells derived from a patient with the GLA variant c.376A>G (p.S126G) highlights a non-pathogenic role in Fabry disease. *Molecular genetics and metabolism reports*, 38, 101029.

Barbieri M, et al. (2024) A deep learning approach for fast muscle water T2 mapping with subject specific fat T2 calibration from multi-spin-echo acquisitions. *Scientific reports*, 14(1), 8253.

Watson TC, et al. (2024) Somatostatin Interneurons Recruit Pre- and Postsynaptic GABAB Receptors in the Adult Mouse Dentate Gyrus. *eNeuro*, 11(8).

Kim O, et al. (2024) Presynaptic cAMP-PKA-mediated potentiation induces reconfiguration of synaptic vesicle pools and channel-vesicle coupling at hippocampal mossy fiber boutons. *PLoS biology*, 22(11), e3002879.

Katsanevaki D, et al. (2024) Key roles of C2/GAP domains in SYNGAP1-related pathophysiology. *Cell reports*, 43(9), 114733.

Carbonell-Roig J, et al. (2024) Dysregulated acetylcholine-mediated dopamine neurotransmission in the eIF4E Tg mouse model of autism spectrum disorders. *Cell reports*, 43(12), 114997.

Bonnycastle K, et al. (2023) Reversal of cell, circuit and seizure phenotypes in a mouse model of DNM1 epileptic encephalopathy. *Nature communications*, 14(1), 5285.

Traunmüller L, et al. (2023) A cell-type-specific alternative splicing regulator shapes synapse properties in a trans-synaptic manner. *Cell reports*, 42(3), 112173.

Grigoryan G, et al. (2023) Synaptic plasticity at the dentate gyrus granule cell to somatostatin-expressing interneuron synapses supports object location memory. *Proceedings of the National Academy of Sciences of the United States of America*, 120(51), e2312752120.

Degro CE, et al. (2022) Interneuron diversity in the rat dentate gyrus: An unbiased in vitro classification. *Hippocampus*, 32(4), 310.

Ingram RJ, et al. (2022) Increased GABA transmission to GnRH neurons after intrahippocampal kainic acid injection in mice is sex-specific and associated with estrous cycle disruption. *Neurobiology of disease*, 172, 105822.

Elmasri M, et al. (2022) Common synaptic phenotypes arising from diverse mutations in the human NMDA receptor subunit GluN2A. *Communications biology*, 5(1), 174.

Asiminas A, et al. (2022) Experience-dependent changes in hippocampal spatial activity and hippocampal circuit function are disrupted in a rat model of Fragile X Syndrome. *Molecular autism*, 13(1), 49.