

Resource Summary Report

Generated by NIF on Jul 31, 2026

Bonsai

RRID:SCR_017218

Type: Tool

Proper Citation

Bonsai (RRID:SCR_017218)

Resource Information

URL: <https://bonsai-rx.org/>

Proper Citation: Bonsai (RRID:SCR_017218)

Description: Software event based framework for processing and controlling data streams. Visual language designed for making software systems that require rich and rapid interaction with external world.

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

Defining Citation: [PMID:25904861](https://pubmed.ncbi.nlm.nih.gov/25904861/)

Keywords: Event, based, framework, processing, controlling, data, stream

Funding: European Union Seventh Framework Programme ;
Bial Foundation ;
Foundation for Science and Technology ;
Champalimaud Foundation

Availability: Free, Available for download, Freely available

Resource Name: Bonsai

Resource ID: SCR_017218

Alternate URLs: <https://github.com/bonsai-rx/bonsai-rx.github.io>

License: MIT

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260731T043017+0000

Ratings and Alerts

No rating or validation information has been found for Bonsai.

No alerts have been found for Bonsai.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 88 mentions in open access literature.

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

Maltsev DI, et al. (2026) In vivo chemogenetic generation of intraneuronal H₂O₂. Free radical biology & medicine, 245, 329.

Ajuwon V, et al. (2025) GoFish: a foray into open-source, aquatic behavioral automation. Journal of fish biology, 107(4), 1184.

Paglione M, et al. (2025) Local transcriptome sustains synaptic function in impaired Wallerian degeneration. EMBO reports, 26(1), 61.

Ahmadlou M, et al. (2025) A subcortical switchboard for perseverative, exploratory and disengaged states. Nature, 641(8061), 151.

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. iScience, 28(4), 112097.

Ignatowska-Jankowska BM, et al. (2025) Accurate Tracking of Locomotory Kinematics in Mice Moving Freely in Three-Dimensional Environments. eNeuro, 12(6).

Klee JL, et al. (2025) Internal and external contexts drive distinct dynamics in shared action-encoding striatal neurons. bioRxiv : the preprint server for biology.

Klumpp M, et al. (2025) Syntalos: a software for precise synchronization of simultaneous multi-modal data acquisition and closed-loop interventions. Nature communications, 16(1), 708.

Gong XT, et al. (2025) Basal Forebrain to Ventral Tegmental Area Glutamatergic Pathway Promotes Emergence from Isoflurane Anesthesia in Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(31).

Cao M, et al. (2025) Integration of hunger and hormonal state gates infant-directed aggression. Nature, 648(8092), 138.

Vaissiere T, et al. (2025) Syngap1 promotes cognitive function through regulation of cortical sensorimotor dynamics. Nature communications, 16(1), 812.

Lucks V, et al. (2025) A framework for a low-cost system of automated gate control in assays of spatial cognition in fishes. *Journal of fish biology*, 107(4), 1129.

Yao W, et al. (2025) Central amygdala somatostatin neurons modulate stress-induced sleep-onset insomnia. *Communications biology*, 8(1), 381.

Voigts J, et al. (2025) Spatial reasoning via recurrent neural dynamics in mouse retrosplenial cortex. *Nature neuroscience*, 28(6), 1293.

Baier F, et al. (2025) The neural basis of species-specific defensive behaviour in *Peromyscus* mice. *Nature*, 645(8080), 439.

Jayakumar S, et al. (2025) Mice navigate scent trails using predictive policies. *bioRxiv* : the preprint server for biology.

Munguba H, et al. (2025) Projection-targeted photopharmacology reveals distinct anxiolytic roles for presynaptic mGluR2 in prefrontal- and insula-amygdala synapses. *Neuron*, 113(6), 912.

Efron B, et al. (2025) Detection and neural encoding of whisker-generated sounds in mice. *Current biology : CB*, 35(6), 1211.

Tolooshams B, et al. (2025) Interpretable deep learning for deconvolutional analysis of neural signals. *Neuron*, 113(8), 1151.

Mongr??dien R, et al. (2025) Astrocytes Control Cocaine-Induced Synaptic Plasticity and Reward Through the Matricellular Protein Hevin. *Biological psychiatry*.