

Resource Summary Report

Generated by [dkNET](#) on Apr 28, 2025

Bpod

RRID:SCR_015943

Type: Tool

Proper Citation

Bpod (RRID:SCR_015943)

Resource Information

URL: <https://github.com/sanworks>

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Description: Software for a measurement and control system for behavior research, most often used to implement operant (Go/NoGo, 2AFC) tasks. This software controls a hierarchy of hardware modules, each powered by an Arduino-programmable microcontroller.

Resource Type: software resource

Keywords: sanworks, rodent, behavior, experiment, control, software, hardware, arduino, measurement

Funding:

Availability: Open source, Free, Available for download

Resource Name: Bpod

Resource ID: SCR_015943

Alternate URLs: <https://github.com/sanworks/Bpod>

License: GPL-3.0

Record Creation Time: 20220129T080328+0000

Record Last Update: 20250420T014749+0000

Ratings and Alerts

No rating or validation information has been found for Bpod.

No alerts have been found for Bpod.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Shiotani K, et al. (2024) An intra-oral flavor detection task in freely moving mice. iScience, 27(2), 108924.

Ishizu K, et al. (2024) Localized and global representation of prior value, sensory evidence, and choice in male mouse cerebral cortex. Nature communications, 15(1), 4071.

Federman N, et al. (2024) Acquisition of non-olfactory encoding improves odour discrimination in olfactory cortex. Nature communications, 15(1), 5572.

Molano-Mazón M, et al. (2024) Rapid, systematic updating of movement by accumulated decision evidence. bioRxiv : the preprint server for biology.

Isaac J, et al. (2024) Sex differences in neural representations of social and nonsocial reward in the medial prefrontal cortex. Nature communications, 15(1), 8018.

Molano-Mazón M, et al. (2024) Rapid, systematic updating of movement by accumulated decision evidence. Nature communications, 15(1), 10583.

Choi K, et al. (2023) Distributed processing for value-based choice by prelimbic circuits targeting anterior-posterior dorsal striatal subregions in male mice. Nature communications, 14(1), 1920.

Musall S, et al. (2023) Pyramidal cell types drive functionally distinct cortical activity patterns during decision-making. Nature neuroscience, 26(3), 495.

Yin C, et al. (2023) Engaged decision-makers align spontaneous movements to stereotyped task demands. bioRxiv : the preprint server for biology.

Terem A, et al. (2023) Claustral neurons projecting to frontal cortex restrict opioid consumption. Current biology : CB, 33(13), 2761.

Luongo FJ, et al. (2023) Mice and primates use distinct strategies for visual segmentation. *eLife*, 12.

Bao C, et al. (2023) The rat frontal orienting field dynamically encodes value for economic decisions under risk. *Nature neuroscience*, 26(11), 1942.

Chen APF, et al. (2022) Nigrostriatal dopamine pathway regulates auditory discrimination behavior. *Nature communications*, 13(1), 5942.

Jung S, et al. (2022) A forebrain neural substrate for behavioral thermoregulation. *Neuron*, 110(2), 266.

Sheng W, et al. (2022) Real-Time Image Processing Toolbox for All-Optical Closed-Loop Control of Neuronal Activities. *Frontiers in cellular neuroscience*, 16, 917713.

Schatz A, et al. (2022) LabNet hardware control software for the Raspberry Pi. *eLife*, 11.

Bale MR, et al. (2021) Sequence Learning Induces Selectivity to Multiple Task Parameters in Mouse Somatosensory Cortex. *Current biology : CB*, 31(3), 473.

Lui JH, et al. (2021) Differential encoding in prefrontal cortex projection neuron classes across cognitive tasks. *Cell*, 184(2), 489.

, et al. (2021) Standardized and reproducible measurement of decision-making in mice. *eLife*, 10.

Hegedüs P, et al. (2021) Training protocol for probabilistic Pavlovian conditioning in mice using an open-source head-fixed setup. *STAR protocols*, 2(3), 100795.