

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project

RRID:SCR_021427

Type: Tool

Proper Citation

Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project (RRID:SCR_021427)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/head-fixed-setup-combined-behavior-electrophysiology-optogenetics/>

Proper Citation: Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project (RRID:SCR_021427)

Description: Project related to temporally controlled rodent behavior. Provides system which utilizes optimal open source setup of hardware and software through behavioral setup for temporally controlled rodent behavior. Used for combined behavior, electrophysiology and optogenetics experiments. System allows for training of head fixed animals with calibrated sound stimuli, precisely timed fluid and air puff presentations as reinforcers. Combines microcontroller based behavior control with sound delivery system for acoustic stimuli, fast solenoid valves for reinforcement delivery and custom built sound attenuated chamber.

Synonyms: Electrophysiology, and Optogenetics, Head-Fixed Setup for Combined Behavior

Resource Type: data or information resource, instrument resource, portal, project portal

Defining Citation: [DOI:10.3389/fnsys.2018.00018](https://doi.org/10.3389/fnsys.2018.00018)

Keywords: Head fixed animals training, calibrated sound stimuli, timed fluid reinforcer, air puff presentations reinforce, temporally controlled rodent behavior, Bonsai, Bpod, Open Ephys, OpenBehavior, Instrument

Availability: Free, Freely available

Resource Name: Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project

Resource ID: SCR_021427

Record Creation Time: 20220129T080355+0000

Record Last Update: 20260905T132939+0000

Ratings and Alerts

No rating or validation information has been found for Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project.

No alerts have been found for Head-Fixed Setup for Combined Behavior, Electrophysiology, and Optogenetics project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.