

# Resource Summary Report

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## pyOS-5 project

RRID:SCR\_022335

Type: Tool

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### Proper Citation

pyOS-5 project (RRID:SCR\_022335)

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### Resource Information

**URL:** <https://edspace.american.edu/openbehavior/project/pyos-5/>

**Proper Citation:** pyOS-5 project (RRID:SCR\_022335)

**Description:** Open source operant box system optimized for use with tethered animals. System includes hardware and software. Control electronics are build on pyControl, controlling custom PCB integrating 5 infra-red break-beam sensors and 5 stimulus LEDs, single nose-poke for reward receptacle, stepper motor for control of custom peristaltic pump for reward delivery, audio board for tone generation through attached speaker, house light and fan, LED driver for optogenetic stimulation, and bidirectional communication with external devices via TTL pulses.

**Synonyms:** Python based operant box system in 5-choice design, pyOS-5

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

**Defining Citation:** [DOI:10.1038/s41598-021-01717-1](https://doi.org/10.1038/s41598-021-01717-1)

**Keywords:** OpenBehavior, Instrument, operant box system, tethered animals, behavior apparatus, neurophysiology

**Availability:** Free, Freely available

**Resource Name:** pyOS-5 project

**Resource ID:** SCR\_022335

**Record Creation Time:** 20220602T050139+0000

**Record Last Update:** 20260829T182757+0000

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### Ratings and Alerts

No rating or validation information has been found for pyOS-5 project.

No alerts have been found for pyOS-5 project.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.