

Resource Summary Report

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

Microwave based Homecage Motion Detector project

RRID:SCR_021590

Type: Tool

Proper Citation

Microwave based Homecage Motion Detector project (RRID:SCR_021590)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/microwave-based-homecage-motion-detector/>

Proper Citation: Microwave based Homecage Motion Detector project (RRID:SCR_021590)

Description: Portal provides radar based motion detector for home cage activity monitoring in mice. System is used for motion detection without visual contact to animal and can be used with various cage types. Features custom printed circuit board and motion detector shield for Arduino, which saves raw activity and timestamped data in CSV files onto SD card. Developed by Max Planck Institute of Psychiatry scientists. Authors also provide Python script for data analysis and generation of actograms.

Synonyms: Microwave based Homecage Motion Detector

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

Defining Citation: [DOI:10.1186/s13036-017-0079-y](https://doi.org/10.1186/s13036-017-0079-y)

Keywords: Instrument, Homecage Motion Detector, OpenBehavior

Availability: Free, Freely available

Resource Name: Microwave based Homecage Motion Detector project

Resource ID: SCR_021590

Record Creation Time: 20220129T080356+0000

Record Last Update: 20260905T132942+0000

Ratings and Alerts

No rating or validation information has been found for Microwave based Homecage Motion Detector project.

No alerts have been found for Microwave based Homecage Motion Detector project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.